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	
Released to Temperature (DGQ 024 12:44:35 P	M 0.0	

Received by OCD: 6/6/2024 12:36:18 PM	Dry	Sat.	Page
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 Flare Date: 10/21/2023

Duration of Event: 13 Hours 30 Minutes **MCF Flared:** 2897

Start Time: 01:00 AM End Time: 02:30 PM

Cause: Emergency Flare > Third Party Downstream Activity > Enterprise > Equipment Issues

Method of Flared Gas Measurement: Gas Flare Meter

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 compressor station operator, which impacted Oxy's ability to send gas to them. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline compression station 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, Enterprise, third party owned and operated downstream pipeline operator, shut in or reduced their sales gas intake service due to continuous compression equipment issues on their end, which in turn caused high line pressure to occur, several times within a 24-hr period, which then triggered brief intermittent flaring events to occur. These brief intermittent flaring instances event could not have been foreseen, avoided or prevented from happening as they occurred with no advance notice or warning. The duration and volume of this event is a collective of all flaring instances within a 24period. All OXY operations and facility equipment were running at maximized optimization prior to the flaring events occurring. Oxy field personnel were not notified in advance of gas flow intake restrictions and/or shutins from Enterprise personnel, due to their compression equipment issues, prior to the flaring events occurring at Oxy's facility. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.

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, that is beyond Oxy's control to avoid, prevent or foresee, to minimize emissions as much as possible as part of the overall steps taken to limit duration and magnitude of flaring. The flare at this facility has a 98% combustion efficiency to lessen emissions as much as possible. In this case, Enterprise, third party owned and operated downstream pipeline operator, shut in or reduced their sales gas intake service due to equipment issues on their end, which in turn caused high line pressure to occur, several times within a 24-hr period, which then triggered brief intermittent flaring events to occur. These brief intermittent flaring instances event could not have been foreseen, avoided or prevented from happening as they occurred with no advance notice or warning. As soon as flaring was triggered, field area's mitigation optimizers cut injection rates to wells in the field to reduce injection and sales gas across the area so that field pressure would stay below the flare trigger setpoints of the facility to cease flaring. All OXY operations and facility equipment were running at maximized optimization prior to the flaring events occurring. Oxy field personnel were not notified in advance

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

Oxy is unable to take any corrective actions to eliminate the cause and potential reoccurrence of a downstream third-party owned and operated gas plant's issues, as this is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Enterprise operations will have issues which may reoccur from time to time and may trigger a spike in the gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise's facilities have equipment issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enterprise then restricts Oxy's ability to send gas, which then prompts Oxy to route all its stranded gas not pushed into the Enterprise gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. The only actions that Oxy can take and handle that is within its control, is to keep continually communicate with Enterprise personnel that proper communication is necessary in advance during these types of situations so that Oxy can adjust its operations to minimize emissions or perform workable actions so that flaring is avoided.

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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 351542

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	351542
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

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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QUESTIONS

Action 351542

Q	JESTIONS		
Operator:	OGRID:		
OXY USA INC P.O. Box 4294	16696 Action Number:		
Houston, TX 772104294	351542		
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)		
QUESTIONS			
Prerequisites			
Any messages presented in this section, will prevent submission of this application. Please resolve to	hese issues before continuing with the rest of the questions.		
Incident ID (n#)	Unavailable.		
Incident Name	Unavailable.		
Incident Type	Flare		
Incident Status	Unavailable.		
Incident Facility	[fAPP2126640958] CORRAL #2 SOUTH COMP STATION		
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section	nn) that are assigned to your current operator can be amended with this C-129A application.		
Determine the of Department of Department			
Determination of Reporting Requirements	nd may provide additional quidance		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers are 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	165		
period from a single event	Yes		
Is this considered a submission for a vent or flare event	Yes, major 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	enting 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		
Equipment Involved			
Primary Equipment Involved	Other (Specify)		
Additional details for Equipment Involved. Please specify	Emergency Flare > Third Party Downstream Activity > Enterprise > Equipment Issues		
Democratic Compositional Analysis of Vents I as Flored Natural Co			
Representative Compositional Analysis of Vented or Flared Natural Gas			
Please provide the mole percent for the percentage questions in this group. Methodo (CHA) percentage	71		
Methane (CH4) percentage			
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	ifications 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.		

Not answered.

Not answered.

Oxygen (02) percentage quality requirement

Carbon Dioxide (C02) percentage quality requirement

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QUESTIONS, Page 2

Action 351542

QUESTIONS (continued)	QL	JEST	IONS	(continued)
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Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	351542
	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	10/21/2023	
Time vent or flare was discovered or commenced	01:00 AM	
Time vent or flare was terminated	02:30 PM	
Cumulative hours during this event	14	

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: 2,897 Mcf Recovered: 0 Mcf Lost: 2,897 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	[713731] Enterprise Crude Pipeline LLC		
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	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 compressor station operator, which impacted Oxy's ability to send gas to them. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline compression station 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, Enterprise, third party owned and operated downstream pipeline operator, shut in or reduced their sales gas intake service due to continuous compression equipment issues on their end, which in turn caused high line pressure to occur, several times within a 24-hr period, which then triggered brief intermittent flaring events to occur. These brief intermittent flaring instances event could not have been foreseen, avoided or prevented from happening as they occurred with no advance notice or warning. The duration and volume of this event is a collective of all flaring instances within a 24-period. All OXY operations and facility equipment were running at maximized optimization prior to the flaring events occurring. Oxy field personnel were not notified in advance of gas flow intake restrictions and/or shut-ins from Enterprise personnel, due to their compression equipment issues, prior to the flaring events occurring at Oxy's facility. This event is out of OXY's control yet OXY made every effort to control	

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ACKNOWLEDGMENTS

Action 351542

ACKNOWLEDGMENTS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	351542
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

V	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.
V	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.
V	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.
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.
✓	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 351542

CONDITIONS

Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	351542	
	Action Type:	
l l	[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.	6/6/2024