


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 1 COMP STATION ENERGY TRANSFER CHECK
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	12-22-2023
Meter Number	18000C
Air temperature	75
Flow Rate (MCF/Day)	10994.4
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	CORRAL 1 COMP STATION ENERGY TRANSFER CHECK
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM, OXY USA INC
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	WEST
FLOC	OP-L2100-CS002
Sample Sub Type	CDP
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	38558
Sampled by	LUIS JIMENEZ
Sample date	12-19-2023
Analyzed date	12-27-2023
Method Name	C9
Injection Date	2023-12-27 13:25:54
Report Date	2023-12-27 13:40:34
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	4ffff345-bc68-4db2-8147-c637303310dc
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	18464.5	1.0507	0.00005691	1.0477	0.0	0.01013	0.116
Methane	1004683.5	73.2049	0.00007286	72.9925	738.9	0.40431	12.423
CO2	2884.6	0.1373	0.00004761	0.1369	0.0	0.00208	0.023
Ethane	294823.4	13.5896	0.00004609	13.5501	240.4	0.14068	3.638
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000
Propane	232845.8	7.6298	0.00003277	7.6076	191.9	0.11583	2.104
iso-butane	90764.2	1.0038	0.00001106	1.0009	32.6	0.02009	0.329
n-Butane	216339.3	2.3788	0.00001100	2.3719	77.6	0.04760	0.751
iso-pentane	44794.4	0.4377	0.00000977	0.4364	17.5	0.01087	0.160
n-Pentane	48472.9	0.4549	0.00000938	0.4536	18.2	0.01130	0.165
hexanes	24895.0	0.2454	0.00000986	0.2447	11.7	0.00728	0.101
heptanes	18668.0	0.1128	0.00000604	0.1124	6.2	0.00389	0.052
octanes	7975.0	0.0428	0.00000537	0.0427	2.7	0.00168	0.022
nonanes+	797.0	0.0026	0.00000326	0.0026	0.2	0.00012	0.001
Total:		100.2912		100.0000	1337.8	0.77585	19.886

Results Summary

Result	Dry	Sat.
Total Un-Normalized Mole%	100.2912	
Pressure Base (psia)	14.730	
Temperature Base (Deg. F)	60.00	
Flow to Impinger (2023-12-27 10:54:19 PM)	110.8	

Result	Dry	Sat.	
Flowing Pressure (psia)	1288.3		
Gross Heating Value (BTU / Ideal cu.ft.)	1337.8	1314.5	
Gross Heating Value (BTU / Real cu.ft.)	1343.4	1320.6	
Relative Density (G), Real	0.7788	0.7764	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	100.2912	97.0000	103.0000	Pass	

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Corral 1S CS**Flare Date:** 01/22/2024**Duration of Event:** 2 Hours 19 Minutes**MCF Flared:** 2862**Start Time:** 02:45 AM**End Time:** 05:04 AM**Cause:** Emergency Flare > Third Party Downstream Activity > Enterprise > Hobson Plant > ESD**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 operated downstream pipeline operator, suddenly and unexpectedly shut Oxy out of their sales line due to a hydrate issue on their end which caused their Enterprise Hobson plant to ESD, which then prompted high line pressure to occur, which then triggered a flaring event to occur. Oxy is unable to predict or anticipate when Enterprise will have issues as this is beyond Oxy's control. Every necessary precaution was taken to ensure that minimization of flaring was done. This event could not have been foreseen, avoided or prevented from happening as it occurred with no advance notice or warning.

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 operated downstream pipeline operator, suddenly and unexpectedly shut Oxy out of their sales line due to a hydrate issue on their end which caused their Enterprise Hobson plant to ESD, which then prompted high line pressure to occur, which then triggered a flaring event to occur. Oxy is unable to predict or anticipate when Enterprise will have issues as this is beyond Oxy's control. Every necessary precaution was taken to ensure that minimization of flaring was done. As soon as flaring was triggered, the field area's mitigation optimizers cut injection 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 facility to cease flaring, which took some time to do. 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 unable to take any corrective actions to eliminate the cause and potential reoccurrence of a downstream third-party owned and operated equipment or operational 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 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, which then prompts Oxy to route all its stranded gas not pushed into Enterprise's gas pipeline, to flare. The only actions that Oxy can take and handle that is within its control, is to continually attempt to communicate with Enterprise personnel, who operate the sales gas pipeline, when possible, during these types of circumstances.

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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 312086

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 312086
	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 312086

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 312086
	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 these issues before continuing with the rest of the questions.	
Incident ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2126641362] CORRAL #1 COMP STATION
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.	

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, 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 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	Emergency Flare > Third Party Downstream Activity > Enterprise > Hobson Plant > ESD

Representative Compositional Analysis of Vented or Flared Natural Gas Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	73
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 312086

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	312086
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	01/22/2024
Time vent or flare was discovered or commenced	02:45 AM
Time vent or flare was terminated	05:04 AM
Cumulative hours during this event	2

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: 2,862 Mcf Recovered: 0 Mcf Lost: 2,862 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 operated downstream pipeline operator, suddenly and unexpectedly shut Oxy out of their sales line due to a hydrate issue on their end which caused their Enterprise Hobson plant to ESD, which then prompted high line pressure to occur, which then triggered a flaring event to occur. Oxy is unable to predict or anticipate when Enterprise will have issues as this is beyond Oxy's control. Every necessary precaution was taken to ensure that minimization of flaring was done. This event could not have been foreseen, avoided or prevented from happening as it occurred with no advance notice or warning.
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Steps taken to limit the duration and magnitude of vent or flare	pipeline operator, suddenly and unexpectedly shut Oxy out of their sales line due to a hydrate issue on their end which caused their Enterprise Hobson plant to ESD, which then prompted high line pressure to occur, which then triggered a flaring event to occur. Oxy is unable to predict or anticipate when Enterprise will have issues as this is beyond Oxy's control. Every necessary precaution was taken to ensure that minimization of flaring was done. As soon as flaring was triggered, the field area's mitigation optimizers cut injection 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 facility to cease flaring, which took some time to do. This event is out of OXY's control, yet OXY made every effort to control and minimize emissions as much as possible.
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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

☒	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.
☒	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.
☒	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.
☒	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 312086

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	Action Number: 312086
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
marialuna2	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.	2/6/2024