


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	LOST TANK 18 FACILITY HP VRU 3
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	12-15-2023
Meter Number	16427V
Air temperature	57
Flow Rate (MCF/Day)	492
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	LOST TANK 18 FACILITY HP VRU 3
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM, OXY USA INC
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	LOST TANK
FLOC	OP-DELNE-BT010
Sample Sub Type	CTB
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	38947
Sampled by	SCOTT
Sample date	12-12-2023
Analyzed date	12-19-2023
Method Name	C9
Injection Date	2023-12-19 16:54:11
Report Date	2023-12-19 16:55:47
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	53d6f6b5-4467-4841-89c9-4fae48334cc6
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	4568.9	0.2600	0.00005691	0.2564	0.0	0.00248	0.028	
Methane	456273.6	33.2457	0.00007286	32.7797	331.8	0.18157	5.613	
CO2	30720.0	1.4627	0.00004761	1.4422	0.0	0.02191	0.249	
Ethane	576932.1	26.5931	0.00004609	26.2203	465.1	0.27222	7.082	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	760744.0	24.9277	0.00003277	24.5783	619.8	0.37420	6.839	
iso-butane	300846.6	3.3273	0.00001106	3.2807	106.9	0.06584	1.084	
n-Butane	758257.0	8.3375	0.00001100	8.2207	268.8	0.16497	2.618	
iso-pentane	132666.7	1.2963	0.00000977	1.2781	51.3	0.03184	0.472	
n-Pentane	135071.5	1.2676	0.00000938	1.2499	50.2	0.03114	0.458	
hexanes	50692.0	0.4997	0.00000986	0.4927	23.5	0.01466	0.205	
heptanes	27428.0	0.1657	0.00000604	0.1633	9.0	0.00565	0.076	
octanes	6748.0	0.0362	0.00000537	0.0357	2.2	0.00141	0.018	
nonanes+	614.0	0.0020	0.00000326	0.0020	0.1	0.00009	0.001	
Total:		101.4216		100.0000	1928.9	1.16798	24.743	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	101.4216		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	114.3		

Result	Dry	Sat.	
Flowing Pressure (psia)	102.1		
Gross Heating Value (BTU / Ideal cu.ft.)	1928.9	1895.3	
Gross Heating Value (BTU / Real cu.ft.)	1948.6	1915.7	
Relative Density (G), Real	1.1794	1.1705	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	101.4216	97.0000	103.0000	Pass	

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Lost Tank 18 CPF**Flare Date:** 08/27/2024**Duration of Event:** 2 Hours 40 Minute**MCF Flared:** 1585**Start Time:** 08:50 AM**End Time:** 11:30 AM**Cause:** Emergency Flare > Lost Tank 25 CGL > Third Party Vendor > Monarch Compression > Unplanned Compression Maintenance > Multiple Compression 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, Monarch Compression made revisions to the compression PLC programming at Lost Tank 25 CGL, which in turn, unexpectedly resulted in the on-skid recycle valves of three (3) different units remaining 90% open, which in turn, significantly lowered the station's output and inadvertently raising field pressure. As a result, the Lost Tank 18 CPF experienced a pressure buildup and subsequent flaring, which occurred intermittently. This event could not have been foreseen, avoided or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel from Monarch Compression personnel that work would be performed on the compression equipment and that the on-skid recycle valves would be affected as part of this unplanned compression maintenance work. Monarch techs and mechanics did not think the new program would cause the on-skid recycle valve to remain open. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively

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. In this case, Monarch Compression made revisions to the compression PLC programming at Lost Tank 25 CGL, which in turn, unexpectedly resulted in the on-skid recycle valves of three (3) different units remaining 90% open, which in turn, significantly lowered the station's output and inadvertently raising field pressure. As a result, the Lost Tank 18 CPF experienced a pressure buildup and subsequent flaring, which occurred intermittently. This event could not have been foreseen, avoided or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel from Monarch Compression personnel that work would be performed on the compression equipment and that the on-skid recycle valves would be affected as part of this unplanned compression maintenance work. Monarch techs and mechanics did not think the new program would cause the on-skid recycle valve to remain open. Steps were immediately taken by the OXY Operator

during each flaring instance to reduce and mitigate the volume of gas being sent to flare by reducing production to the Lost Tank 18 CPF by choking back high GOR wells several times. Monarch technicians and mechanics successfully recalibrated the on-skid recycle valves, restoring their normal operation. There is an option to reroute or offload to a secondary midstream operator from this facility however, offload to secondary midstream operator was at full capacity. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively

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

Oxy cannot take any corrective actions to eliminate the cause and potential reoccurrence of a third-party owned and operated compression equipment owner wanting to perform maintenance on their own equipment. This issue is out of Oxy's custody to control and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Third-party equipment owners/vendors will want to perform maintenance on their equipment, which may occur with or without advance notice. This will reoccur from time to time, which in turn, inadvertently causes OXY to flare, in circumstances, where other aspects of equipment operations are affected unexpectedly. The only actions that Oxy can take and handle that is within its control, is to continually communicate with Monarch Compression personnel, and ensure that maintenance work is scheduled in advance. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively

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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 383606

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 383606
	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: <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 383606

QUESTIONS

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	Action Number: 383606
	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	[fAPP2226965761] Lost Tank 18 CPF
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 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 > Lost Tank 25 CGL > Third Party Vendor > Monarch Compression > Unplanned Compression Maintenance > Multiple Compression 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	33
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	1
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 383606

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	383606
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	08/27/2024
Time vent or flare was discovered or commenced	08:50 AM
Time vent or flare was terminated	11:30 AM
Cumulative hours during this event	3

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: 1,585 Mcf Recovered: 0 Mcf Lost: 1,585 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	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, Monarch Compression made revisions to the compression PLC programming at Lost Tank 25 CGL, which in turn, unexpectedly resulted in the on-skid recycle valves of three (3) different units remaining 90% open, which in turn, significantly lowered the station's output and inadvertently raising field pressure. As a result, the Lost Tank 18 CPF experienced a pressure buildup and subsequent flaring, which occurred intermittently. This event could not have been foreseen, avoided or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel from Monarch Compression personnel that work would be performed on the compression equipment and that the on-skid recycle valves would be affected as part of this unplanned compression maintenance work. Monarch techs and mechanics did not think the new program would cause the on-skid recycle valve to remain open. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively

Steps taken to limit the duration and magnitude of vent or flare	<p>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. In this case, Monarch Compression made revisions to the compression PLC programming at Lost Tank 25 CGL, which in turn, unexpectedly resulted in the on-skid recycle valves of three (3) different units remaining 90% open, which in turn, significantly lowered the station's output and inadvertently raising field pressure. As a result, the Lost Tank 18 CPF experienced a pressure buildup and subsequent flaring, which occurred intermittently. This event could not have been foreseen, avoided or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel from Monarch Compression personnel that work would be performed on the compression equipment and that the on-skid recycle valves would be affected as part of this unplanned compression maintenance work. Monarch techs and mechanics did not think the new program would cause the on-skid recycle valve to remain open. Steps were immediately taken by the OXY Operator during each flaring instance to reduce and mitigate the volume of gas being sent to flare by reducing production to the Lost Tank 18 CPF by choking back high GOR wells several times. Monarch technicians and mechanics successfully recalibrated the on-skid recycle valves, restoring their normal operation. There is an option to reroute or offload to a secondary midstream operator from this facility however, offload to secondary midstream operator was at full capacity. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively</p>
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	<p>Oxy cannot take any corrective actions to eliminate the cause and potential reoccurrence of a third-party owned and operated compression equipment owner wanting to perform maintenance on their own equipment. This issue is out of Oxy's custody to control and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Third-party equipment owners/vendors will want to perform maintenance on their equipment, which may occur with or without advance notice. This will reoccur from time to time, which in turn, inadvertently causes OXY to flare, in circumstances, where other aspects of equipment operations are affected unexpectedly. The only actions that Oxy can take and handle that is within its control, is to continually communicate with Monarch Compression personnel, and ensure that maintenance work is scheduled in advance. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively</p>

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Action 383606

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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

Action 383606

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Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 383606
	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.	9/13/2024