


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 PROD 2
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	12-15-2023
Meter Number	16412P
Air temperature	59
Flow Rate (MCF/Day)	19315
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	LOST TANK 18 FACILITY PROD 2
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 #	38967
Sampled by	SCOTT
Sample date	12-11-2023
Analyzed date	12-19-2023
Method Name	C9
Injection Date	2023-12-19 17:22:49
Report Date	2023-12-19 17:24:34
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	c9df624d-557a-4940-b08e-304ec2186c4a
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	33914.5	1.9299	0.00005691	1.9234	0.0	0.01860	0.212	
Methane	970996.0	70.7503	0.00007286	70.5121	713.8	0.39057	12.003	
CO2	27471.0	1.3080	0.00004761	1.3036	0.0	0.01981	0.223	
Ethane	291718.9	13.4465	0.00004609	13.4012	237.7	0.13913	3.599	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	234132.9	7.6719	0.00003277	7.6461	192.8	0.11641	2.115	
iso-butane	91468.0	1.0116	0.00001106	1.0082	32.9	0.02023	0.331	
n-Butane	233710.5	2.5698	0.00001100	2.5611	83.7	0.05140	0.811	
iso-pentane	50142.9	0.4900	0.00000977	0.4883	19.6	0.01216	0.179	
n-Pentane	56869.7	0.5337	0.00000938	0.5319	21.4	0.01325	0.194	
hexanes	36640.0	0.3612	0.00000986	0.3600	17.2	0.01071	0.149	
heptanes	31543.0	0.1905	0.00000604	0.1899	10.5	0.00657	0.088	
octanes	12956.0	0.0696	0.00000537	0.0694	4.3	0.00274	0.036	
nonanes+	1475.0	0.0048	0.00000326	0.0048	0.3	0.00021	0.003	
Total:		100.3379		100.0000	1334.2	0.80179	19.943	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	100.3379		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	83.3		

Result	Dry	Sat.	
Flowing Pressure (psia)	100.2		
Gross Heating Value (BTU / Ideal cu.ft.)	1334.2	1311.0	
Gross Heating Value (BTU / Real cu.ft.)	1340.0	1317.3	
Relative Density (G), Real	0.8049	0.8022	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	100.3379	97.0000	103.0000	Pass	

UPSET VENTING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Lost Tank 18 CPF**Vent Date:** 07/17/2024**Duration of Event:** 24 Hours**MCF Vented:** 612**Start Time:** 12:00 AM**End Time:** 11:59 PM**Cause:** Underground Pipeline > Venting Leak > Corrosion**Method of Vented Gas Measurement:** Allocation**Comments:** Flyover Finding

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

This venting leak event was caused by a sudden and unexpected malfunction of the steel piping of the gas line which developed a pin sized hole because of corrosion on the pipeline running through a plugged and abandoned facility and was discovered by Oxy performing a drone flyover to survey the area in July 2024. The type of corrosion damage on this type of pipeline is not a common occurrence and was not anticipated. Oxy believes the sudden and unexpected venting leak because of corrosion was a sudden, unavoidable failure beyond Oxy's reasonable control. While this type of corrosion failure is infrequent, Oxy has initiated a root cause analysis to determine why the leak may have occurred and how Oxy can prevent this type of event from happening in the future. Oxy operations dispatched a field crew to immediately identify, isolate and cap the leak to cease venting, when it was discovered a few days later. Once the venting leak was identified, isolated, and stopped, Oxy's Operations group then transitioned its attention on conducting an extensive review to determine a venting release timeframe. Operations personnel determined that the venting leak was isolated to the capped corroded hole of the gas pipeline and identified a period from July 15, 2024, to July 17, 2024. While not certain, Operations personnel used best engineering and previous gas estimates to determine venting release estimates and timeframe. Based on previous gas estimates, historical production, and pressure records, it is possible that a total of 1,836 mcf of gas may have potentially leaked from the underground gas pipeline over a total of three (3) days.

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 rather than vent 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 venting or flaring. In this case, This venting leak event was caused by a sudden and unexpected malfunction of the steel piping of the gas line which developed a pin sized hole because of corrosion on the pipeline running through a plugged and abandoned facility and was discovered by Oxy performing a drone flyover to survey the area in July 2024. Once the venting leak was identified, isolated, and stopped, Oxy's Operations group then transitioned its attention on conducting an extensive review to determine a venting release timeframe. Operations personnel determined that the venting leak was isolated to the capped corroded hole of the gas pipeline and identified a period from July 15, 2024, to July 17, 2024. While not certain, Operations personnel used best engineering and previous gas estimates to determine venting release

estimates and timeframe. Based on previous gas estimates, historical production, and pressure records, it is possible that a total of 1,836 mcf of gas may have leaked from the underground gas pipeline over a total of three (3) days.

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 underground vent leak from a gas pipeline, caused by corrosion, as these type of vent leaks can be sudden, reasonably unforeseeable and unexpected which can occur without warning or advance notice. Oxy is unable to determine when and if a gas pipeline in remote field areas will have underground leaks yet OXY makes every effort to identify, isolate and halt such emissions when possible during these types of circumstances. The limited actions that Oxy can do in these types of circumstances is to resolve the issues, should they occur, in a timely manner and continue with its area flyover surveying as part of its overall positive operation and maintenance programs.

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District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

DEFINITIONS

Action 396652

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 396652
	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: • 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 396652

QUESTIONS

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	Action Number: 396652
	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	[fAPP2226965761] Lost Tank 18 CPF

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	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 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	Underground Pipeline > Venting Leak > Corrosion

Representative Compositional Analysis of Vented or Flared Natural Gas Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	71
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) 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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 396652

QUESTIONS (continued)

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	Action Number: 396652
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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/17/2024
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other Other (Specify) Natural Gas Vented Released: 612 Mcf Recovered: 0 Mcf Lost: 612 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Calculated Vent Allocations
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	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	This venting leak event was caused by a sudden and unexpected malfunction of the steel piping of the gas line which developed a pin sized hole because of corrosion on the pipeline running through a plugged and abandoned facility and was discovered by Oxy performing a drone flyover to survey the area in July 2024. The type of corrosion damage on this type of pipeline is not a common occurrence and was not anticipated. Oxy believes the sudden and unexpected venting leak because of corrosion was a sudden, unavoidable failure beyond Oxy's reasonable control. While this type of corrosion failure is infrequent, Oxy has initiated a root cause analysis to determine why the leak may have occurred and how Oxy can prevent this type of event from happening in the future. Oxy operations dispatched a field crew to immediately identify, isolate and cap the leak to cease venting, when it was discovered a few days later. Once the venting leak was identified, isolated, and stopped, Oxy's Operations group then transitioned its attention on conducting an extensive review to determine a venting release timeframe. Operations personnel determined that the venting leak was isolated to the capped corroded hole of the gas pipeline and identified a period from July 15, 2024, to July 17, 2024. While not certain, Operations personnel used best engineering and previous gas estimates to determine venting release estimates and timeframe. Based on previous gas estimates, historical production, and pressure records, it is possible that a total of 1,836 mcf of gas may have potentially leaked from the underground gas pipeline over a total of three (3) days. It is OXY's policy to route all stranded gas to a flare rather than vent during an unforeseen and

Steps taken to limit the duration and magnitude of vent or flare	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 venting or flaring. In this case, This venting leak event was caused by a sudden and unexpected malfunction of the steel piping of the gas line which developed a pin sized hole because of corrosion on the pipeline running through a plugged and abandoned facility and was discovered by Oxy performing a drone flyover to survey the area in July 2024. Once the venting leak was identified, isolated, and stopped, Oxy's Operations group then transitioned its attention on conducting an extensive review to determine a venting release timeframe. Operations personnel determined that the venting leak was isolated to the capped corroded hole of the gas pipeline and identified a period from July 15, 2024, to July 17, 2024. While not certain, Operations personnel used best engineering and previous gas estimates to determine venting release estimates and timeframe. Based on previous gas estimates, historical production, and pressure records, it is possible that a total of 1,836 mcf of gas may have leaked from the underground gas pipeline over a total of three (3) days.
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ACKNOWLEDGMENTS

Action 396652

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ACKNOWLEDGMENTS

☒	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.
☒	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.
☒	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.
☒	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 396652

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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.	10/29/2024