


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 GORGE CTB PRODUCTION
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	08-08-2023
Meter Number	18300P
Air temperature	90
Flow Rate (MCF/Day)	506
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	CORRAL GORGE CTB PRODUCTION
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	RANCH
FLOC	OP-L3788-BT001
Sample Sub Type	CTB
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	27960
Sampled by	CHANDLER MONTGOMERY
Sample date	8-2-2023
Analyzed date	8-8-2023
Method Name	C9
Injection Date	2023-08-08 16:56:46
Report Date	2023-08-08 16:59:15
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	3d9e13fe-d42e-451a-b56d-b87a2799a40c
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	72206.6	4.1939	0.00005808	4.1706	0.0	0.04034	0.461	
Methane	970900.7	71.4087	0.00007355	71.0115	718.9	0.39333	12.090	
CO2	2654.2	0.1263	0.00004757	0.1256	0.0	0.00191	0.022	
Ethane	253653.2	11.7338	0.00004626	11.6685	207.0	0.12114	3.134	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	190120.2	6.2400	0.00003282	6.2053	156.5	0.09448	1.717	
iso-butane	83004.2	0.9256	0.00001115	0.9205	30.0	0.01847	0.303	
n-Butane	223240.1	2.4754	0.00001109	2.4616	80.5	0.04940	0.779	
iso-pentane	73369.1	0.7260	0.00000990	0.7220	29.0	0.01799	0.265	
n-Pentane	99986.9	0.9492	0.00000949	0.9439	37.9	0.02351	0.344	
hexanes	103316.0	0.8268	0.00000800	0.8222	39.2	0.02446	0.340	
heptanes	88623.0	0.6452	0.00000728	0.6417	35.4	0.02220	0.297	
octanes	38351.0	0.2697	0.00000703	0.2682	16.8	0.01058	0.138	
nonanes+	4863.0	0.0386	0.00000794	0.0384	2.7	0.00170	0.022	
Total:		100.5593		100.0000	1353.8	0.81951	19.911	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	100.5593		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flow to Impinger (scf/d)	122.6		

Result	Dry	Sat.	
Flowing Pressure (psia)	80.0		
Gross Heating Value (BTU / Ideal cu.ft.)	1353.8	1330.2	
Gross Heating Value (BTU / Real cu.ft.)	1359.9	1336.9	
Relative Density (G), Real	0.8229	0.8198	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	100.5593	97.0000	103.0000	Pass	

UPSET VENTING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Corral Gorge CTB**Vent Date:** 09/06/2023**Duration of Event:** 8 Hours**MCF Vented:** 250**Start Time:** 12:00 AM**End Time:** 08:00 AM**Cause:** Injection Line > Venting Leak > Corrosion**Method of Vented Gas Measurement:** Allocation

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

This emissions event was caused by the unforeseen, unexpected, sudden, and 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 preventative maintenance practices. In this case, this venting leak event was caused by a sudden and unexpected malfunction of the injection line which developed a pin sized hole due to corrosion approximately, in the early twilight hours of day and was not discovered until later that morning. This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. Once the venting leak was identified, it was isolated, repaired and tested to ensure no further venting occurred. This event is out of OXY's control. 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 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 injection line which developed a pin sized hole due to corrosion approximately, in the early twilight hours of day and was not discovered until later that morning. This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. Once the venting leak was identified, it was isolated, repaired and tested to ensure no further venting occurred.

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 a vent leak from an injection line 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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 268015

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 268015
	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: <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 268015

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 268015
	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	[fAPP2126640458] CORRAL GORGE CTB

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, minor 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	Injection Line > 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	4
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) 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 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 268015

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	09/06/2023
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	08:00 AM
Cumulative hours during this event	8

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other Other (Specify) Natural Gas Vented Released: 250 Mcf Recovered: 0 Mcf Lost: 250 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Allocation
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 emissions event was caused by the unforeseen, unexpected, sudden, and 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 preventative maintenance practices. In this case, this venting leak event was caused by a sudden and unexpected malfunction of the injection line which developed a pin sized hole due to corrosion approximately, in the early twilight hours of day and was not discovered until later that morning. This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. Once the venting leak was identified, it was isolated, repaired and tested to ensure no further venting occurred. This event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible.
Steps taken to limit the duration and magnitude of vent or flare	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 injection line which developed a pin sized hole due to corrosion approximately, in the early twilight hours of day and was not discovered until later that morning. This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<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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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.	9/21/2023