


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	CYPRESS 33 A CDP
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	10-05-2023
Meter Number	1.10.1
Air temperature	80
Flow Rate (MCF/Day)	8450
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	CYPRESS 33 A CDP
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM, OXY USA INC
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	EAST OF PECOS
FLOC	OP-L3818-BT001
Sample Sub Type	CDP
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	38980
Sampled by	CHANDLER MONTGOMERY
Sample date	10-4-2023
Analyzed date	10-7-2023
Method Name	C9
Injection Date	2023-10-07 14:06:17
Report Date	2023-10-07 14:08:09
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	5def1129-b4da-4637-92e3-de487ead38fe
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	19012.9	1.0802	0.00005681	1.0778	0.0	0.01042	0.119
Methane	1057194.8	77.7319	0.00007353	77.5593	785.2	0.42960	13.199
CO2	2587.1	0.1236	0.00004778	0.1233	0.0	0.00187	0.021
Ethane	241018.8	11.0556	0.00004587	11.0311	195.7	0.11452	2.961
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000
Propane	159382.8	5.0405	0.00003162	5.0293	126.8	0.07657	1.391
iso-butane	68851.6	0.7760	0.00001127	0.7743	25.2	0.01554	0.254
n-Butane	164158.7	1.8349	0.00001118	1.8309	59.9	0.03674	0.579
iso-pentane	51400.4	0.5071	0.00000987	0.5060	20.3	0.01260	0.186
n-Pentane	64230.3	0.6198	0.00000965	0.6185	24.9	0.01541	0.225
hexanes	74758.0	0.5770	0.00000772	0.5758	27.4	0.01713	0.238
heptanes	77076.0	0.5590	0.00000725	0.5578	30.8	0.01930	0.258
octanes	36746.0	0.2731	0.00000743	0.2725	17.1	0.01075	0.140
nonanes+	3516.0	0.0435	0.00001237	0.0434	3.0	0.00192	0.025
Total:		100.2223		100.0000	1316.2	0.76239	19.597

Results Summary

Result	Dry	Sat.
Total Un-Normalized Mole%	100.2223	
Pressure Base (psia)	14.730	
Temperature Base (Deg. F)	60.00	
Flowing Temperature (Deg. F)	92.5	

Result	Dry	Sat.	
Flowing Pressure (psia)	52.2		
Gross Heating Value (BTU / Ideal cu.ft.)	1316.2	1293.3	
Gross Heating Value (BTU / Real cu.ft.)	1321.6	1299.2	
Relative Density (G), Real	0.7652	0.7631	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	100.2223	97.0000	103.0000	Pass	

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Cypress 33A CTB**Flare Date:** 02/13/2024**Duration of Event:** 07 Hours 19 Minutes**MCF Flared:** 107 MCF**Start Time:** 04:40 PM**End Time:** 11:59 PM**Cause:** Emergency Flare > Downstream Activity > Third Party > Salt Creek Midstream > Salt Creek Compressor Station > High O2 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, third party owned and operated Salt Creek Midstream's compressor station, had issues with high O2 several times within a 24-hr period, which in turn, caused their compressor station to shut down, which then prompted high line pressure to occur multiple times, when which then triggered intermittent flaring instances to occur at the Cypress 33A CTB. This event could not have been foreseen, avoided or prevented from happening as this event 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, which 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. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. 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. Internal OXY procedures ensure that upon a sudden and unexpected flaring event, production techs are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. In this case, third party owned and operated Salt Creek Midstream's compressor station, had issues with high O2 several times within a 24-hr period, which in turn, caused their compressor station to shut down, which then prompted high line pressure to occur multiple times, when which then triggered intermittent flaring instances to occur at the Cypress 33A CTB. In each instance of flaring, field personnel began making choke changes so that field pressure would stay below the flare trigger setpoints of the facility. 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.

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 compressor station's sudden and unexpected gas flow intake restriction or shut-in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Third-party downstream compression station owner operators may have equipment issues, or additional downstream third-party gas plant issues, which will reoccur from time to time, which in turn, directly impacts Oxy's ability to send its sales gas to them, and potentially triggering a flaring event. OXY makes every effort to control and minimize emissions as much as possible.

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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 318358

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 318358
	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 318358

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 318358
	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	[fAPP2305250553] Cypress 33 A 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	No
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	Emergency Flare > Downstream Activity > Third Party > Salt Creek Midstream > Salt Creek Compressor Station > High O2 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	78
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 (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 318358

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/13/2024
Time vent or flare was discovered or commenced	04:40 PM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	7

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: 107 Mcf Recovered: 0 Mcf Lost: 107 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	[329461] San Mateo Black River Oil Pipeline, LLC
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	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, third party owned and operated Salt Creek Midstream's compressor station, had issues with high O2 several times within a 24-hr period, which in turn, caused their compressor station to shut down, which then prompted high line pressure to occur multiple times, when which then triggered intermittent flaring instances to occur at the Cypress 33A CTB. This event could not have been foreseen, avoided or prevented from happening as this event occurred with no advance notice or warning.
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Steps taken to limit the duration and magnitude of vent or flare	walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. Internal OXY procedures ensure that upon a sudden and unexpected flaring event, production techs are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. In this case, third party owned and operated Salt Creek Midstream's compressor station, had issues with high O2 several times within a 24-hr period, which in turn, caused their compressor station to shut down, which then prompted high line pressure to occur multiple times, when which then triggered intermittent flaring instances to occur at the Cypress 33A CTB. In each instance of flaring, field personnel began making choke changes so that field pressure would stay below the flare trigger setpoints of the facility. 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.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy cannot take any corrective actions to eliminate the cause and potential reoccurrence of a third-party owned and operated compressor station's sudden and unexpected gas flow intake restriction or shut-in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Third-party downstream compression station owner operators may have equipment issues, or additional downstream third-party gas plant issues, which will reoccur from time to time, which in turn, directly impacts Oxy's ability to send its sales gas to them, and potentially triggering a flaring event. OXY makes every effort to control and minimize emissions as much as possible.

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ACKNOWLEDGMENTS

Action 318358

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	16696
	Action Number:
	318358
Action Type:	
[C-129] Venting and/or Flaring (C-129)	

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 318358

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	Action Number: 318358
	Action Type: [C-129] Venting and/or Flaring (C-129)

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.	2/27/2024