



Certificate of Analysis

Number: 6030-24010171-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Chandler Montgomery
Occidental Petroleum
1502 W Commerce Dr.
Carlsbad, NM 88220

Jan. 17, 2024

Field:	PERMIAN_RESOURCES	Sampled By:	Mike Armijo
Station Name:	Falcon Ridge CGL(BTEX)	Sample Of:	Gas Composite
Station Number:	N/A	Sample Date:	01/15/2024 10:15
Station Location:	Dehy	Sample Conditions:	677 psig, @ 58 °F Ambient: 14 °F
Sample Point:	Inlet Dehy	Effective Date:	01/15/2024 10:15
Formation:	NEW_MEXICO	Flow Rate:	N/A
County:	Lea	Method:	GPA-2261M
Well Name:	N/A	Cylinder No:	5030-04006
Type of Sample: :	Spot-Cylinder	Instrument:	70104251 (Inficon GC-MicroFusion)
Heat Trace Used:	N/A	Last Inst. Cal.:	01/15/2024 0:00 AM
Sampling Method: :	Fill and Purge	Analyzed:	01/16/2024 13:42:44 by EBH
Sampling Company: :	SPL		

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia
Hydrogen Sulfide	0.0000	0.0000	0.0000	
Nitrogen	1.2966	1.3215	1.6634	
Carbon Dioxide	1.0738	1.0944	2.1642	
Methane	71.6817	73.0563	52.6616	
Ethane	12.7892	13.0345	17.6108	3.480
Propane	7.5875	7.7330	15.3218	2.127
Iso-Butane	0.8655	0.8821	2.3037	0.288
n-Butane	1.9446	1.9819	5.1759	0.624
Iso-Pentane	0.3698	0.3769	1.2219	0.138
n-Pentane	0.3077	0.3136	1.0166	0.113
Hexanes	0.1225	0.1248	0.4832	0.051
Heptanes	0.0624	0.0636	0.2864	0.029
Octanes	0.0153	0.0156	0.0801	0.008
Nonanes Plus	0.0018	0.0018	0.0104	0.001
	98.1184	100.0000	100.0000	6.859

Calculated Physical Properties	Total	C9+
Calculated Molecular Weight	22.26	128.26
Compressibility Factor	0.9960	
Relative Density Real Gas	0.7712	4.4283

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.65 psia & 60°F

Real Gas Dry BTU	1295.7	6974.4
Water Sat. Gas Base BTU	1273.6	6852.4
Ideal, Gross HV - Dry at 14.65 psia	1290.6	6974.4
Ideal, Gross HV - Wet	1268.0	6852.4

Comments: H2S Field Content N/A ppm
FMP/LSE N/A,

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Falcon Ridge CGL**Flare Date:** 03/24/2024**Duration of Event:** 2 Hours 24 Minutes**MCF Flared:** 53**Start Time:** 03:40 AM**End Time:** 06:04 AM**Cause:** Emergency Flare > Third Party Downstream Activity > Plains All American > Compressor Station > Power Outage > Emergency Shutdown**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, Plains All American, third party operated midstream pipeline operator, suddenly and unexpectedly lost a compressor station due to nine (9) downed power poles, which in turn triggered several brief intermittent flaring events to occur, throughout the day. Until Plain's compressor station's power was restored and able to handle the volume of gas sent to them, the spike in line pressure forced Oxy's upstream facility to route all its stranded gas to a flare, as it was not able to push its gas into Plain's gas pipeline. 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.

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, Plains All American, third party operated midstream pipeline operator, suddenly and unexpectedly lost a compressor station due to nine (9) downed power poles, which in turn triggered several brief intermittent flaring events to occur, throughout the day. Oxy made every effort to shut in as much of production/wells as possible, yet it was absolutely critical to Oxy's operational safety and start up procedures to allow some production to occur at this facility, as it was necessary to maintain a minimal amount of gas flow to keep the facility's compression equipment operating a bit, so that Oxy's Falcon Ridge CGL would be ready to send its gas to Plains pipeline when they were ready and able to start taking gas. The minimal amount of gas flow allowed to be produced and flare was done out of necessity to protect personnel and equipment as a safeguard against potential issues that could occur when restarting the compression equipment at the facility. In addition, Oxy production techs and essential personnel made several attempts to communicate with Plains All American personnel, during their power outage issues,

to be prepared for the re-opening of its pipeline and their gas intake services to recommence. During this time, Oxy production techs also continually monitored the flare during this flaring period. 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 midstream third-party owned and operated pipeline restriction or shut-in, as this is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Plains All American's operations 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. When Plains All American's facilities have equipment issues, operational capabilities or greatly struggles to handle the volume of gas being sent to them by Oxy, Plains All American then restricts Oxy's ability to send gas, which then prompts Oxy to route all its stranded gas not pushed into its gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. Oxy strives to take additional steps, when possible, to minimize the volume of gas flared by choking back well production and maintaining continual communication with Plains All American to ensure that gas is safely directed back to sales as soon as Plains All American resumes normal gas services. The only actions that Oxy can take and handle that is within its control, is to continually communicate with Plains All American 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 335351

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 335351
	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 335351

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 335351
	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	[fAPP2333082512] Falcon Ridge CGL CS
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, 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 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 > Plains All American > Compressor Station > Power Outage > Emergency Shutdown

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	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	0
Nitrogen (N2) percentage quality requirement	0
Hydrogen Sulfide (H2S) PPM quality requirement	0
Carbon Dioxide (CO2) percentage quality requirement	0
Oxygen (O2) percentage quality requirement	0

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QUESTIONS, Page 2

Action 335351

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	335351
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	03/24/2024
Time vent or flare was discovered or commenced	03:40 AM
Time vent or flare was terminated	06:04 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: 53 MCF Recovered: 0 MCF Lost: 53 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	[713205] Plains All American GP, LLC a Delaware Corpor
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, Plains All American, third party operated midstream pipeline operator, suddenly and unexpectedly lost a compressor station due to nine (9) downed power poles, which in turn triggered several brief intermittent flaring events to occur, throughout the day. Until Plain's compressor station's power was restored and able to handle the volume of gas sent to them, the spike in line pressure forced Oxy's upstream facility to route all its stranded gas to a flare, as it was not able to push its gas into Plain's gas pipeline. 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.
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Steps taken to limit the duration and magnitude of vent or flare	emissions as much as possible. In this case, Plains All American, third party operated midstream pipeline operator, suddenly and unexpectedly lost a compressor station due to nine (9) downed power poles, which in turn triggered several brief intermittent flaring events to occur, throughout the day. Oxy made every effort to shut in as much of production/wells as possible, yet it was absolutely critical to Oxy's operational safety and start up procedures to allow some production to occur at this facility, as it was necessary to maintain a minimal amount of gas flow to keep the facility's compression equipment operating a bit, so that Oxy's Falcon Ridge CGL would be ready to send its gas to Plains pipeline when they were ready and able to start taking gas. The minimal amount of gas flow allowed to be produced and flare was done out of necessity to protect personnel and equipment as a safeguard against potential issues that could occur when restarting the compression equipment at the facility. In addition, Oxy production techs and essential personnel made several attempts to communicate with Plains All American personnel, during their power outage issues, to be prepared for the re-opening of its pipeline and their gas intake services to recommence. During this time, Oxy production techs also continually monitored the flare during this flaring period. This event is out of OXY's control, yet OXY made every effort to control and minimize emissions as much as possible.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is unable to take any corrective actions to eliminate the cause and potential reoccurrence of a midstream third-party owned and operated pipeline restriction or shut-in, as this is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Plains All American's operations 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. When Plains All American's facilities have equipment issues, operational capabilities or greatly struggles to handle the volume of gas being sent to them by Oxy, Plains All American then restricts Oxy's ability to send gas, which then prompts Oxy to route all its stranded gas not pushed into its gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. Oxy strives to take additional steps, when possible, to minimize the volume of gas flared by choking back well production and maintaining continual communication with Plains All American to ensure that gas is safely directed back to sales as soon as Plains All American resumes normal gas services. The only actions that Oxy can take and handle that is within its control, is to continually communicate with Plains All American personnel, who operate the sales gas pipeline, when possible, during these types of circumstances.

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	Action Number: 335351
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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

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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.	4/19/2024