



Certificate of Analysis

Number: 6030-21120194-001A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481Chandler Montgomery
Occidental Petroleum
1502 W Commerce Dr.
Carlsbad, NM 88220

Dec. 20, 2021

Field:		Sampled By:	Michael Mirabal
Station Name:	Federal 12 NO 001H Production	Sample Of:	Gas Spot
Station Number:	57398P	Sample Date:	12/16/2021 01:38
Station Location:	CTB	Sample Conditions:	55 psig, @ 83 °F Ambient: 63 °F
Sample Point:	Meter	Effective Date:	12/16/2021 01:38
Formation:	Quarterly	Method:	GPA-2261M
County:	Eddy, NM	Cylinder No:	5030-00507
Type of Sample:	Spot-Cylinder	Instrument:	70142339 (Inficon GC-MicroFusion)
Heat Trace Used:	N/A	Last Inst. Cal.:	12/13/2021 0:00 AM
Sampling Method:	Fill and Purge	Analyzed:	12/20/2021 09:07:50 by ERG
Sampling Company:	SPL		

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia
Hydrogen Sulfide	NIL	NIL	NIL	
Nitrogen	4.243	4.29560	5.263	
Carbon Dioxide	0.054	0.05507	0.106	
Methane	71.211	72.09036	50.583	
Ethane	11.472	11.61376	15.274	3.101
Propane	6.692	6.77423	13.065	1.863
Iso-Butane	0.847	0.85726	2.179	0.280
n-Butane	2.095	2.12097	5.392	0.668
Iso-Pentane	0.543	0.54991	1.735	0.201
n-Pentane	0.593	0.59982	1.893	0.217
Hexanes	0.425	0.43005	1.621	0.177
Heptanes	0.355	0.35979	1.577	0.166
Octanes	0.175	0.17665	0.883	0.090
Nonanes Plus	0.076	0.07653	0.429	0.043
	98.781	100.0000	100.000	6.806

Calculated Physical Properties	Total	C9+
Calculated Molecular Weight	22.86	128.26
Compressibility Factor	0.9959	
Relative Density Real Gas	0.7924	4.4283

GPA 2172 Calculation:

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

Real Gas Dry BTU	1305.1	6974.4
Water Sat. Gas Base BTU	1282.8	6852.4
Ideal, Gross HV - Dry at 14.65 psia	1299.8	6974.4
Ideal, Gross HV - Wet	1277.0	6852.4

Comments: H2S Field Content 0 ppm
Mcf/day 271

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:** Federal 12-1H CTB**Flare Date:** 07-21-2022**Duration of event:** 4 Hours 30 Minutes**MCF Flared:** 115**Start Time:** 07:42 AM**End Time:** 12:12 PM**Cause:** Downstream Activity Issue > Energy Transfer > James Ranch Station > Compression Issues**Method of Flared Gas Measurement:** Gas Flare Meter

Comments: This upset event was not caused by any wells associated with the facility. This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable issue 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.

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

This 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 operator, which impacted Oxy's ability to send gas to a third-party gas pipeline. This interruption, restriction, or complete shut-in of the gas pipeline by a third-party pipeline operator is downstream of Oxy's custody transfer point and out of Oxy's control to 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, this was a sudden and reasonably unforeseeable incident outside of OXY's control, but that impacted OXY's upstream facility. Third-party pipeline operator, Energy Transfer, who owns and operates the sales gas service system pipeline, did not provide advance notice of the multiple disruptions to their sales gas service system pipeline due to unforeseen compressor issues at their James Ranch Station. When Energy Transfer's downstream facility and/or its associating downstream facilities has equipment issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Energy Transfer then restricts Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into the Energy Transfer sales gas pipeline, to flare. OXY makes 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 during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take 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. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, this was a sudden and reasonably unforeseeable incident outside of OXY's control, but that impacted OXY's upstream facility. Third-party pipeline operator, Energy Transfer, who owns and operates the sales gas service system pipeline, did not provide advance notice of the multiples disruption to their sales gas service system pipeline due to unforeseen compressor issues at their James Ranch Station. When Energy Transfer's downstream facility and/or its associating downstream facilities has equipment issues or greatly struggles to handle the volume of

gas being sent to them by Oxy, Energy Transfer then restricts Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into the Energy Transfer sales gas pipeline, to flare. In this case, there were intermittent flaring episodes resulting from ETC's downstream stream facility having compressor issues. OXY makes 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 limited in its corrective actions to eliminate the cause and potential reoccurrence of an Energy Transfer sales gas service system pipeline constraint/restriction or shut in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening or reoccurring. Energy Transfer's downstream facility issues will reoccur from time to time and may trigger a spike in their gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When Energy Transfer's downstream facility and/or its associating downstream facilities has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Energy Transfer then restricts Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into the Energy Transfer sales gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. The limited reactive actions that Oxy can do in this circumstance is to shut in multiple wells to minimize gas throughput to match and reduce flaring volumes during this third-party pipeline operator gas service pipeline shut in as well as continually communicate with Energy Transfer personnel throughout these types of situations.

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

DEFINITIONS

Action 131738

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 131738
	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 131738

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 131738
	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	Not answered.
Incident Facility	[fAPP2126663359] FEDERAL 12-1H BATTERY

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 > Enterprise > Equipment 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	75
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	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 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 131738

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/21/2022
Time vent or flare was discovered or commenced	01:20 PM
Time vent or flare was terminated	03:50 PM
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: 54 Mcf Recovered: 0 Mcf Lost: 54 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	[713731] Enterprise Crude 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 operator, which impacted Oxy's ability to send gas to a third-party gas pipeline. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator is downstream of Oxy's custody transfer point and out of Oxy's control to 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. It is Oxy's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. In this case, this was a sudden and reasonably unforeseeable incident outside of OXY's control, but that impacted OXY's upstream facility. Third-party pipeline operator, Enterprise, who owns and operates the gas pipeline, did not provide advance notice of the disruption to their gas pipeline due to their downstream compressor station experienced equipment malfunction issues. OXY personnel contacted Enterprise about the sudden and unforeseeable pipeline shut-in interruption and when they would be back online, and no timeline was provided of a return to normal working operations. OXY was in communication with Enterprise throughout the interruption of service. OXY routed its stranded gas to a flare to 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 during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take 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. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible in order to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, this was a sudden and reasonably unforeseeable incident outside of OXY's control, but that impacted OXY's upstream facility. Third-party pipeline operator, Enterprise, who owns and operates the gas pipeline, did not provide advance notice of the disruption to their gas pipeline due to their downstream compressor station experienced equipment malfunction issues. OXY personnel contacted Enterprise about the sudden and unforeseeable pipeline shut-in interruption and when they would be back online, and no timeline was provided of a return to normal working operations. OXY was in communication with Enterprise throughout the interruption of service. OXY routed its stranded gas to a flare to minimize emissions as much as possible. All OXY operations and facility equipment were running at maximized optimization prior to the shutdown of Enterprise's downstream facility and their inability to take Oxy's volume of gas. This incident was completely out of Oxy's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in the corrective actions to eliminate the cause and potential reoccurrence of an Enterprise gas flow pipeline restriction or shut-in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid, prevent from happening or reoccurring. Enterprise's downstream facilities and associated facilities, may have issues which will reoccur from time to time and may trigger a spike in their gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise has downstream activity issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enterprise then restricts Oxy's ability to send gas, which then prompts Oxy to route all of its stranded gas not pushed into the Enterprise gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. The only actions that Oxy can take and handle that is within its control, is to keep continually communicate with Enterprise personnel during these types of situations and when possible, engage in emergency alternative compression reaction strategies.

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ACKNOWLEDGMENTS

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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

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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.	8/4/2022