Certificate of Analysis

Number: 6030-22020121-001A

Artesia Laboratory
200 E Main St.
Artesia, NM 88210
Phone 575-746-3481

Feb. 09, 2022

Field:	Mesa Verde	Sampled By:	Scott Beasley
Station Name:	Mesa Verde BS 23H	Sample Of:	Gas Spot
Station Number:	15505t	Sample Date:	02/04/2022 11:02
Station Location:	CTB	Sample Conditions:	106 psig, @ 55.7 °F Ambient: 29 °F
Sample Point:	Meter run	Effective Date:	02/04/2022 11:02
Formation:	Spot	Method:	GPA-2261M
County:	Lea	Cylinder No:	1111-002464
Type of Sample: :	Spot-Cylinder	Instrument:	6030_GC6 (Inficon GC-3000 Micro)
Heat Trace Used:	No	Last Inst. Cal.:	02/07/2022 0:00 AM
Sampling Method: :	Fill and Purge	Analyzed:	02/09/2022 09:22:49 by ERG
Sampling Company: :	SPL		

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.000	0.000	0.000		GPM TOTAL C2+	6.035
Nitrogen	1.435	1.452	1.880		GPM TOTAL C3+	2.792
Methane	74.507	75.388	55.894		GPM TOTAL iC5+	0.330
Carbon Dioxide	1.558	1.576	3.205			
Ethane	12.009	12.151	16.886	3.243		
Propane	6.155	6.228	12.692	1.712		
Iso-butane	0.725	0.734	1.972	0.240		
n-Butane	1.603	1.622	4.357	0.510		
Iso-pentane	0.274	0.277	0.924	0.101		
n-Pentane	0.278	0.281	0.937	0.102		
Hexanes Plus	0.288	0.291	1.253	0.127		
	98.832	100.000	100.000	6.035		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7496	3.2176
Calculated Molecular Weight	21.64	93.19
Compressibility Factor	0.9963	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
Real Gas Dry BTU	1248	5113
Water Sat. Gas Base BTU	1227	5024
Ideal, Gross HV - Dry at 14.65 psia	1243.3	5113.2
Ideal, Gross HV - Wet	1221.6	5023.7
Net BTU Dry Gas - real gas	1132	
Net BTU Wet Gas - real gas	1113	

Comments: H2S Field Content 0 ppm
Mcf/day 2044

Hydrocarbon Laboratory Manager

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

UPSET FLARE EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Mesa Verde 18 CTB **Flare Date:** 11/28/2022

Duration of event: 4 Hours 30 Minutes **MCF Flared:** 240

Start Time: 02:30 AM **End Time:** 07:00 AM

Cause: Emergency Flare > Downstream Activity > Enlink > Enlink Rico Station > Equipment Issues

Method of Flared Gas Measurement: Gas Flare Meter

Comments: This upset event was not caused by any wells associated with the facility.

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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 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, Enlink, who owns and operates the gas pipeline, did not provide advance notice of the disruption to their gas pipeline operations due to their downstream Rico Station's oxygen sensor showing high levels and causing a shutdown, which then prompted them to divert to the Charro station, which in turn instigated high sales line pressure to occur and triggering a flare event at the Mesa Verde 18 CTB. This flaring event occurred as a result of Enlink's inability to take Oxy's volume of gas and with with no gas takeaway occurring, field psi increased until set psi levels were reached which triggered flaring at Oxy's facility, as a safety measure for operations, facility equipment, and personnel.

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. This facility is a manned site. 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, Enlink, who owns and operates the gas pipeline, did not provide advance notice of the disruption to their gas pipeline operations due to their downstream Rico Station's oxygen sensor showing high levels and causing a shutdown, which then prompted them to divert to the Charro station, which in turn instigated high sales line pressure to occur and triggering a flare event at the Mesa Verde 18 CTB. This flaring event occurred as a result of Enlink's inability to take Oxy's volume of gas and with no gas takeaway

occurring, field psi increased until set psi levels were reached which triggered flaring at Oxy's facility, as a safety measure for operations, facility equipment, and personnel. On-call Oxy production techs were notified of high line pressure and moved for response by stopping production of high gas producing wells and making arrangements to offload to a secondary operator, DCP, until Enlink was able to begin taking gas again. All OXY operations and facility equipment were running at maximized optimization prior to the shutdown of Enlink 's downstream Rico station 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.

3. Corrective Actions taken to eliminate the cause and reoccurrence of venting or flaring:

Oxy is limited in the corrective actions to eliminate the cause and potential reoccurrence of an Enlink 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. Enlink '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 Enlink has downstream activity issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enlink then restricts Oxy's ability to send gas, which then prompts Oxy to route all of its stranded gas not pushed into the Enlink 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 Enlink personnel regarding these types of situations and when possible, engage in emergency alternative compression reaction strategies.

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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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 167183
	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 167183

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 167183
	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	**[fAPP2126659618] MESA VERDE 18 CTB**

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional 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 > Enlink > Enlink Rico Station > 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 (C02) percentage, if greater than one percent	2
Oxygen (02) 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 (02) percentage quality requirement	*Not answered.*

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QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 167183
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/28/2022
Time vent or flare was discovered or commenced	02:30 AM
Time vent or flare was terminated	07:00 AM
Cumulative hours during this event	4

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: 240 Mcf | Recovered: 0 Mcf | Lost: 240 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	[320009] ENLINK MIDSTREAM OPERATING, LP
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. 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, Enlink, who owns and operates the gas pipeline, did not provide advance notice of the disruption to their gas pipeline operations due to their downstream Rico Station's oxygen sensor showing high levels and causing a shutdown, which then prompted them to divert to the Charro station, which in turn instigated high sales line pressure to occur and triggering a flare event at the Mesa Verde 18 CTB. This flaring event occurred as a result of Enlink's inability to take Oxy's volume of gas and with with no gas takeaway occurring, field psi increased until set psi levels were reached which triggered flaring at Oxy's facility, as a safety measure for operations, facility equipment, and personnel.
Steps taken to limit the duration and magnitude of vent or flare	This facility is a manned site. 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, Enlink, who owns and operates the gas pipeline, did not provide advance notice of the disruption to their gas pipeline operations due to their downstream Rico Station's oxygen sensor showing high levels and causing a shutdown, which then prompted them to divert to the Charro station, which in turn instigated high sales line pressure to occur and triggering a flare event at the Mesa Verde 18 CTB. This flaring event occurred as a result of Enlink's inability to take Oxy's volume of gas and with no gas takeaway occurring, field psi increased until set psi levels were reached which triggered flaring at Oxy's facility, as a safety measure for operations, facility equipment, and personnel. On-call Oxy production techs were notified of high line pressure and moved for response by stopping production of high gas producing wells and making arrangements to offload to a secondary operator, DCP, until Enlink was able to begin taking gas again. All OXY operations and facility equipment were running at maximized optimization prior to the shutdown of Enlink 's downstream Rico station 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.
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ACKNOWLEDGMENTS

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	Action Number: 167183
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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 167183

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 167183
	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.	12/14/2022