

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

Certificate of Analysis

Number: 6030-21060266-009A

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

June 28, 2021

Field: Mesa Verde Station Name: Mesa Verde CTB Check 1 Station Number: 15500C Station Location: CTB Sample Point: Meter Formation: Monthly County: Lea Type of Sample: : Spot-Cylinder Heat Trace Used: N/A Sampling Method: : Fill and Purge Sampling Company: : SPL

Sampled By: Javier Lazo Sample Of: Gas Spot Sample Date: 06/24/2021 12:20 Sample Conditions: 106 psia, @ 101 °F Ambient: 93 °F 06/24/2021 12:20 Effective Date: GPA-2261M Method: Cylinder No: 5030-01777 Instrument: 70104124 (Inficon GC-MicroFusion) Last Inst. Cal.: 05/18/2021 0:00 AM Analyzed: 06/25/2021 14:54:47 by KNF

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia	
Hydrogen Sulfide	NIL	NIL	NIL		
Nitrogen	1.446	1.45303	1.761		
Carbon Dioxide	2.484	2.49523	4.751		
Methane	72.469	72.81178	50.535		
Ethane	11.579	11.63370	15.135	3.107	
Propane	6.462	6.49283	12.387	1.786	
Iso-Butane	0.840	0.84387	2.122	0.276	
n-Butane	2.093	2.10249	5.287	0.662	
Iso-Pentane	0.509	0.51130	1.596	0.187	
n-Pentane	0.584	0.58656	1.831	0.212	
Hexanes	0.414	0.41575	1.550	0.171	
Heptanes	0.369	0.37104	1.609	0.171	
Octanes	0.216	0.21702	1.073	0.111	
Nonanes Plus	0.065	0.06540	0.363	0.037	
	99.530	100.00000	100.000	6.720	
Calculated Physical	I Properties	Tota	I	C9+	
Calculated Molecular	r Weight	23.11		128.26	
Compressibility Factor	or	0.9957	7		
Relative Density Rea	ll Gas	0.8012	2	4.4283	
GPA 2172 Calculation	on:				
Calculated Gross B	TU per ft ³ @ 14.65 p	sia & 60°F			
Real Gas Dry BTU		1304.4	1	6974.4	
Water Sat. Gas Base	e BTU	1282.2	2	6852.4	
Ideal, Gross HV - Dry	y at 14.65 psia	1298.9)	6974.4	
Ideal, Gross HV - We	et	1276.2	2	6852.4	
Comments: H2S Find Mcf/da	ield Content 0 ppm y 26972				



Data reviewed by: Eric Ramirez, Analyst The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

Quality Assurance:

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Beasley

Scot

EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Mesa Verde 18 CTBStart Date: 06/26/2021 @ 08: 15 AMEnd Date: 06/26/2021 @ 09:35 AMCause: Downstream Activity > Enlink, third-party pipeline operatorDuration of event: 1 hour 20 minutesMethod of Flared Gas Measurement: SE MV Flare Meter F6001

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. 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. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements.

In this case, this sudden and unexpected emergency flaring event occurred due to third party pipeline operator, Enlink's, delivery station, El Paso Zorro station, whose facility station, unexpectedly shutdown, the day before, which was caused by weather related power issues, yet, greatly impacted the gas flow from Oxy's upstream facility to Enlink's gas pipeline, was still having issues at their downstream facility. OXY was not given advance notification regarding the need for another shut in due to Enlink's problem on their end. As soon as Oxy production techs noticed that the pipeline pressure was rising yet again, a direct phone call was made to Enlink's point of contact to determine cause for the second time. As soon as OXY was informed of Enlink's problem and the gas pipeline was shut-in with no ETA on return to service, then Oxy production techs immediately initiated emergency offloading alternative reactive plans, yet again, by opening the DCP pipeline flow line and offloading as much possible gas to them, until Oxy production techs could shut in enough wells to reduce gas production and thereby, minimize emissions and cease flaring. All OXY operations and facility equipment were running at maximized optimization prior to the shutdown of Enlink's delivery station, El Paso Zorro, and their inability to take Oxy's volume of gas. During this flaring event, OXY personnel continually monitored the DCP line pressure in order to make necessary adjustments to its own compression equipment, when warranted, until Enlink's delivery station was able to begin taking all the gas Oxy sent their way. This incident was completely out of Oxy's control to prevent from happening. OXY made every effort to control and minimize emissions as much as possible during this event.

2. Steps Taken to limit duration and magnitude of venting or flaring:

It is OXY's policy to route all stranded sales gas to a flare during a sudden, unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements.

In this case, the steps taken to limit duration and magnitude of flaring was for Oxy production techs to quickly engage, again, in Oxy's emergency offloading alternative reactive process by opening the DCP pipeline flow line and offloading as much possible gas to them, until Oxy production techs could shut in wells to reduce enough gas production to match available offload limits and thereby, minimizing emissions until flaring was ceased. All OXY operations and facility equipment were running at maximized optimization prior to the shutdown of Enlink's delivery station, and their inability to take Oxy's volume of gas. During this flaring event, OXY personnel continually monitored the DCP line pressure in order to make necessary adjustments to its own compression equipment, when warranted, until Enlink's and its delivery station were able to begin taking all the gas Oxy sent their way. Once Enlink was taking gas again, and their pipeline gas line pressure was back to normal, Oxy production techs gradually re-opened wells they had previously shut in and adjusted the compression equipment to maximized optimization in a safe and diligent manner. This incident was completely out of Oxy's control to prevent from happening. 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:

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. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 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** 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	35886
	Action Type:
	[C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Determination of Reporting Requirements	

Answer all questions that apply. The Reason(s) statements are calculated based on your ar	nswers and may provide addional guidance.
Was or is this venting or flaring caused by an emergency or malfunction	Yes
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Νο
Is this considered a submission for a notification of a major venting or flaring	Yes, minor venting or flaring of natural gas.
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during ve	nting or flaring that is or may be a major or minor release under
19.15.29.7 NMAC Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes
Did this venting or flaring 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	Νο
Unregistered Facility Site	
Please provide the facility details, if the venting or flaring occurred or is occuring at a facility	that does not have an Facility ID (f#) yet.
Facility or Site Name	Mesa Verde 18 CTB
Facility Type	Tank Battery - (TB)
Equipment Involved	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Emergency Flare, Downstream Activity, Enlink
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 (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.		

Date(s) and Time(s)

Date venting or flaring was discovered or commenced	06/26/2021
Time venting or flaring was discovered or commenced	08:15 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/26/2021
Time venting or flaring was terminated	09:35 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	2
Longest duration of cumulative hours within any 24-hour period during this event	1

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 Spilled: 226 Mcf Recovered: 0 Mcf Lost: 226
	Mcf]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Emergency Flare Meter
Is this a gas only submission (i.e. only Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity Was or is this venting or flaring a result of downstream activity Yes Date notified of downstream activity requiring this venting or flaring Not answered. Time notified of downstream activity requiring this venting or flaring Not answered

Steps and Actions to Prevent Waste

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Action 35886

Received by OCD: 7/10/2021 9:44:53 PM

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For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	See Justification Form >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 gas 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. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements.
Steps taken to limit the duration and magnitude of venting or flaring	See Justification Form >In this case, the steps taken to limit duration and magnitude of flaring was for Oxy production techs to quickly engage, again, in Oxy's emergency offloading alternative reactive process by opening the DCP pipeline flow line and offloading as much possible gas to them, until Oxy production techs could shut in wells to reduce enough gas production to match available offload limits and thereby, minimizing emissions until flaring was ceased. All OXY operations and facility equipment were running at maximized optimization prior to the shutdown of Enlink's delivery station, and their inability to take Oxy's volume of gas. During this flaring event, OXY personnel continually monitored the DCP line pressure in order to make necessary adjustments to its own compression equipment, when warranted, until Enlink's and its delivery station were able to begin taking all the gas Oxy sent their way. Once Enlink was taking gas again, and their pipeline gas line pressure was back to normal, Oxy production techs gradually re-opened wells they had previously shut in and adjusted the compression equipment to maximized optimization in a safe and diligent manner. This incident was completely out of Oxy's control to prevent from happening. 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 venting or flaring	See Justification Form >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.

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CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	35886
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	7/10/2021

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Action 35886