

Certificate of Analysis

Number: 6030-21030124-006A

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

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

Mesa Verde

Mesa Verde BSU 18H LG

Station Number: 155381

Station Location: OXY Meter Run Sample Point: Formation: Quarterly

County: Lea Type of Sample: :

Field:

Station Name:

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: 03/10/2021 09:30

Sample Conditions: 1185 psia, @ 89 °F Ambient: 67 °F

Mar. 12, 2021

Effective Date: 03/10/2021 09:30 Method: GPA-2261M Cylinder No: 5030-01186

Instrument: 70104251 (Inficon GC-MicroFusion)

Last Inst. Cal.: 03/08/2021 0:00 AM

Analyzed: 03/12/2021 13:31:22 by EJR

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.000	0.000	0.000		GPM TOTAL C2+	6.195
Nitrogen	1.367	1.362	1.750		GPM TOTAL C3+	2.934
Methane	75.196	74.948	55.148		GPM TOTAL iC5+	0.331
Carbon Dioxide	1.568	1.563	3.155			
Ethane	12.258	12.217	16.849	3.261		
Propane	6.378	6.357	12.857	1.748		
lso-butane	0.810	0.807	2.151	0.264		
n-Butane	1.884	1.878	5.006	0.591		
Iso-pentane	0.325	0.324	1.072	0.118		
n-Pentane	0.325	0.324	1.072	0.117		
Hexanes Plus	0.221	0.220	0.940	0.096		
	100.332	100.000	100.000	6.195		
Calculated Physica	I Properties	To	otal	C6+		
Relative Density Rea		0.75	553	3.2176		
Calculated Molecula		21	.80	93.19		
Compressibility Fact		0.99	963			
GPA 2172 Calculati						
Calculated Gross BTU per ft ³ @ 14.65 psia & 60°F						
Real Gas Dry BTU	•		259	5113		
Water Sat. Gas Base	e BTU	12	237	5024		
Ideal, Gross HV - Dr	v at 14.65 psia	125	3.9	5113.2		
Ideal, Gross HV - We	•	123	2.0	5023.7		
Net BTU Dry Gas - r		1	142			
Net BTU Wet Gas - I	•	11	123			
Commonts: U29 E	iold Contant 0 nnm					

Comments: H2S Field Content 0 ppm

Mcf/day 839

Hydrocarbon Laboratory Manager

Quality Assurance: The above apalyses, are performed in accordance with ASTM, UOP, GPA guidelines for quality

assurance, unless otherwise states u

Hage 1 of 1

UPSET EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Mesa Verde 18 CTB Date: 08/18/2021

Duration of event: 20 Minutes **MCF Flared:** 52

Start Time: 04:37 PM End Time: 04:57 PM

Cause: Downstream Activity> Enlink > Charro Station

Method of Flared Gas Measurement: Gas Flare Meter F6001

Well API Associated with Facility: 30-015-44551 Mesa Verde Bone Spring Unit #016H

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:

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 sudden and unexpected flaring event occurred due to third party pipeline operator, Enterprise's associating downstream facility, Charro station, which was having equipment issues, which in turn caused the line pressure to spike extremely high, instigating Enlink to restrict the volume of gas Oxy was not allowed to be pushed into the Enlink pipeline. Enlink was able to bring their line pressure down so that their pipeline was no longer restricted, and Oxy was able to get its gas into their sales pipeline. This event is out of OXY's control, as this was caused by downstream activity, yet OXY made every effort to minimize emissions for the brief period Oxy was imposed to flare. Until Enlink's downstream facility was 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 any of its gas into its secondary offload operator's gas system pipeline as DCP was closed off due to a planned maintenance shutdown.

2. Steps Taken to limit duration and magnitude 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.

In this case, the steps taken to limit the duration of this flare is that Oxy's internal policy during an unforeseen and unavoidable emergency or malfunction route is to route all stranded gas to a flare 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. In addition, Oxy production techs contacted Enlink personnel immediately upon rising high pressure line alarms to determine cause of the increase in Enlink's line pressure then Oxy production techs continually monitored Enlink's line pressure in order to make necessary adjustments to Oxy's own compression equipment, when warranted, until Enlink's line pressure was back to normal and flaring ceased. Prior to the spike in Enlink's pipeline pressure, which impacted Oxy's ability to send all its gas to them, Oxy's compression equipment was running and operating at maximized optimization. Flaring did not occur until Enlink's downstream facility and its associating facility, Charro station, was unable to handle the volume of gas loads sent to them. 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:

Oxy cannot take any 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 or prevent from happening or reoccurring. Enlink's downstream facility issues will reoccur from time to time and may trigger a spike in their gas line pressure, which in turn, is out of Oxy's control to avoid or prevent from happening yet directly impacts Oxy's ability to send gas to them and causes Oxy's upstream facility to flare. When Enlink's downstream facility and/or its facility equipment has 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 its secondary offload 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 during these types of situations.

<u>District I</u> 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

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

Action 46471

QUESTIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	46471
	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	[30-015-44551] MESA VERDE BONE SPRING UNIT #016H	
Incident Facility	Not answered.	

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 or is this venting and/or flaring caused by an emergency or malfunction	Yes		
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No		
Is this considered a submission for a notification of a major venting and/or flaring	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 or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes		
Did this venting and/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	No		
Was the venting and/or flaring 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 > Charro Station

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.		

Date(s) and Time(s)		
Date venting and/or flaring was discovered or commenced	08/18/2021	
Time venting and/or flaring was discovered or commenced	04:37 PM	
Time venting and/or flaring was terminated	04:57 PM	
Cumulative hours during this event	0	

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: 52 Mcf Recovered: 0 Mcf Lost: 52 Mcf]	
	Other Released Details	Not answered.	
Additional details for Measured or Estimated Volume(s). Please specify		Gas Flare Meter F6001	
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.	

ting or Flaring Resulting from Downstream Activity	
Was or is this venting and/or flaring a result of downstream activity	Yes
Date notified of downstream activity requiring this venting and/or flaring	08/18/2021
Time notified of downstream activity requiring this venting and/or flaring	04:37 PM

Steps and Actions to Prevent Waste		
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 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.	
Steps taken to limit the duration and magnitude of venting and/or flaring	See Justification Form > In this case, the steps taken to limit the duration of this flare is that Oxy's internal policy during an unforeseen and unavoidable emergency or malfunction route is to route all stranded gas to a flare 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. In addition, Oxy production techs contacted Enlink personnel immediately upon rising high pressure line alarms to determine cause of the increase in Enlink's line pressure then Oxy production techs continually monitored Enlink's line pressure in order to make necessary adjustments to Oxy's own compression equipment, when warranted, until Enlink's line pressure was back to normal and flaring ceased.	
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	See Justification Form > Oxy cannot take any 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 or prevent from happening or reoccurring. Enlink's downstream facility issues will re-occur from time to time and may trigger a spike in their gas line pressure, which in turn, is out of Oxy's control to avoid or prevent from happening yet directly impacts Oxy's ability to send gas to them and causes Oxy's upstream facility to flare. When Enlink's downstream facility and/or its facility equipment has 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 its secondary offload 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 during these types of situations.	

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CONDITIONS

Action 46471

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Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	46471
· I	Action Type:
·	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
marialuna	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.	9/3/2021