

Chandler Montgomery

Occidental Petroleum 1502 W Commerce Dr. Carlsbad, NM 88220 Certificate of Analysis

Number: 6030-21060266-003A

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

June 28, 2021

Field:Sand DunesStation Name:Sand Dunes CTB Train 3 ProductionStation Number:17009PStation Location:CTBSample Point:MeterFormation:MonthlyCounty:EddyType of Sample: :Spot-CylinderHeat Trace Used:N/ASampling Method: :Fill and PurgeSampling Company: :SPL	ation Name: ation Number: ation Location: imple Point: rmation: punty: pe of Sample: : at Trace Used: impling Method: :	e: Sand Dunes CTB Train 3 Productio ber: 17009P ttion: CTB ht: Meter Monthly Eddy nple: : Spot-Cylinder Jsed: N/A ethod: : Fill and Purge	n
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Sampled By:	Javier Lazo
Sample Of:	Gas Spot
Sample Date:	06/24/2021 12:27
Sample Conditions	:90 psia, @ 105 °F Ambient: 100 °F
Effective Date:	06/24/2021 12:27
Method:	GPA-2261M
Cylinder No:	1111-002295
Instrument:	70104124 (Inficon GC-MicroFusion)
Last Inst. Cal.:	05/18/2021 0:00 AM
Analyzed:	06/25/2021 13:45:45 by KNF

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia	
Hydrogen Sulfide	NIL	NIL	NIL		
Nitrogen	1.770	1.78383	2.131		
Carbon Dioxide	1.321	1.33170	2.500		
Methane	72.953	73.52731	50.313		
Ethane	11.168	11.25608	14.436	3.007	
Propane	6.184	6.23236	11.722	1.715	
Iso-Butane	0.769	0.77545	1.922	0.253	
n-Butane	1.954	1.96948	4.882	0.620	
Iso-Pentane	0.551	0.55564	1.710	0.203	
n-Pentane	0.641	0.64574	1.987	0.234	
Hexanes	0.546	0.55030	2.023	0.226	
Heptanes	0.675	0.68001	2.906	0.313	
Octanes	0.527	0.53084	2.586	0.272	
Nonanes Plus	0.160	0.16126	0.882	0.091	
	99.219	100.00000	100.000	6.934	
Calculated Physical I	Properties	Tota		C9+	
Calculated Molecular \	Neight	23.45	5	128.26	
Compressibility Factor		0.9955	5		
Relative Density Real	Gas	0.8129)	4.4283	
GPA 2172 Calculation					
Calculated Gross BT	U per ft ³ @ 14.65 ps	sia & 60°F			
Real Gas Dry BTU		1346.1		6974.4	
Water Sat. Gas Base I		1323.2		6852.4	
Ideal, Gross HV - Dry		1340.1		6974.4	
Ideal, Gross HV - Wet		1316.6	6	6852.4	
Comments: H2S Fie Mcf/day					



Quality Assurance:

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

Powered By SURECHEM Released to Imaging: 8/25/2021 4:35:31 to Beasley

UPSET EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Sand Dunes South Corridor CTB	Date: 08/16/2021
Duration of event: 29 minutes	MCF Flared: 288
Start Time: 09:56 AM	End Time: 10:25 AM

Cause: Downstream Activity Issue > Enterprise Shutdown

Method of Flared Gas Measurement: Flare meter F6001

Well API Associated with Facility: 30-015-44526 Nimitz MDP1 12 Federal Com #001H

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

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 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.

In this case, this was a sudden and unexpected flaring event due to third party pipeline operator, Enterprise, whose downstream mid-stream facility was shut down due to an accident caused by their automation team working on their facility equipment. The problem occurred downstream of Oxy's custody transfer point and is out of Oxy's control to prevent and/or avoid from happening. The shutdown of Enterprise's mid-stream downstream facility greatly impacted the gas flow from Oxy's upstream facility to their gas pipeline and causing an immediate spike in high line pressure in their pipeline, which triggered a flaring event at Oxy's upstream facility. This event was out of Oxy's control to foresee, avoid or prevent from happening, yet Oxy made every effort to minimize emissions as much as possible.

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 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.

In the case, it is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the steps to take to limit duration and magnitude of flaring. Upon flaring being noticed, an Oxy production tech quickly contacted Enterprise personnel about the unforeseeable pipeline restriction and/or interruption and when service would be restored. Oxy was informed that the cause of the disruption was due to an accident caused by their automation team working on their facility equipment and that service would be restored shortly.

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 interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator, as this issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening again. Enterprise's downstream facility issues will re-occur from time to time and which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise's downstream facility equipment has 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 initiates 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 circumstances.

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

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Action 44483

Q	UESTIONS
Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696 Action Number: 44483 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	[30-015-44526] NIMITZ MDP1 12 FEDERAL COM #001H
Incident Facility	Not answered.
Determination of Reporting Requirements	
	nd may avoid and internal suidence
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	Yes
Was or is this venting and/or flaring caused by an emergency or malfunction 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.
	roo, minor vonting under naring of natural guo.
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during v	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	Νο
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 Issue > Enterprise Shutdown
Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	1
Methane (CH4) percentage	74
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	
Oxygen (02) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	cifications 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.

Date(s) and Time(s)

Date venting and/or flaring was discovered or commenced	08/16/2021
Time venting and/or flaring was discovered or commenced	09:56 AM
Time venting and/or flaring was terminated	10:25 AM
Cumulative hours during this event	0

Not answered.

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details

Oxygen (02) percentage quality requirement

Received by OCD: 8/25/2021 4:12:25 PM

Natural Gas Flared (Mcf) Details	Cause: Other Other (Specify) Natural Gas Flared Released: 288 Mcf Recovered: 0 Mcf Lost: 288 Mcf]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	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.

Venting 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	08/16/2021	
Time notified of downstream activity requiring this venting and/or flaring	09:56 AM	

teps 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 gipeline 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 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.	
Steps taken to limit the duration and magnitude of venting and/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. This interruption, restriction or complete shut-in of the gas pipeline by a third-party gipeline 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 gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible.	
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 interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator, as this issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening again. Enterprise's downstream facility issues will re-occur from time to time and which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise's downstream facility equipment has 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 initiates 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 circumstances.	

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CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	44483
	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.	8/25/2021

CONDITIONS

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Action 44483