

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

Station Name:Station Number:Station Number:1Station Location:0Sample Point:NFormation:NCounty:EType of Sample:S	5
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Javier Lazo Sampled By: 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 F	Properties	Tota		C9+	
Calculated Molecular V	Neight	23.45	i	128.26	
Compressibility Factor		0.9955	i		
Relative Density Real	Gas	0.8129)	4.4283	
GPA 2172 Calculation	n:				
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 E	ЗТU	1323.2		6852.4	
Ideal, Gross HV - Dry a	at 14.65 psia	1340.1		6974.4	
Ideal, Gross HV - Wet		1316.6	5	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: 12/6/2021 8: PATEM Beasley

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Facility: Sand Dunes South Corridor CTB	Flare Date: 11/13/2021
Duration of event: 1 Hour 10 Minutes	MCF Flared: 138
Start Time: 03:20 PM	End Time: 04:30 PM

Cause: Downstream Activity Issue > Enterprise > Sand Dunes Central station > Compression Equipment Issues

Method of Flared Gas Measurement: Gas Flare Meter

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:

In this case, 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 operated 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. The high line pressure spike in Enterprise sales gas service pipeline system impacted Oxy's ability to send gas to Enterprise's Sand Dunes Central Station, as their downstream facility was having compression equipment issues. Until Enterprise was able to handle the volume of sales gas sent to them, the spike in line pressure forced Oxy's upstream facility to route its stranded gas to a flare, as it was not able to push its gas into Enterprise's gas pipeline. Upon immediate flaring at Oxy's Sand Dunes South Corridor CTB, Oxy personnel immediately contacted Enterprise to determine cause. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service pipeline system or issues with their downstream facility.

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

It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, that is beyond Oxy's control to avoid, prevent or foresee, to minimize emissions as much as possible as part of the overall steps taken to limit duration and magnitude of flaring. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The high line pressure spike in Enterprise sales gas service pipeline system impacted Oxy's ability to send gas to Enterprise's Sand Dunes Central Station, as their downstream facility compression equipment was unable to handle the gas loads sent to them because of their central station facility was having compression equipment issues. Until Enterprise was able to handle the volume of sales gas sent to them, the spike in line pressure forced Oxy's upstream facility to route its stranded gas to a flare, as it was not able to push its gas into Enterprise's gas pipeline. Upon immediate flaring

at Oxy's Sand Dunes South Corridor CTB, Oxy personnel immediately contacted Enterprise to determine cause. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service pipeline system or issues with their downstream facility. To significantly minimize emissions during this flaring event, Oxy production techs began to quickly shut-in multiple high GOR wells to minimize gas throughput at its Sand Dunes South Corridor CTB facility to reduce flaring volumes and attempted to offload as much gas as possible to secondary offloading third party operator, DCP. Once Enterprise downstream facility resumed normal working operations and began gas sales pipeline service once again, did flaring cease.

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 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 or prevent from happening or reoccurring. Enterprise 's downstream facility issues will re-occur from time to time, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise downstream facility and/or its facility equipment has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enterprise then restricts or cuts off Oxy's ability to send gas, which then prompts Oxy to route 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 during these circumstances. The limited actions that Oxy can do in this circumstance is to shut in multiple high GOR wells and engage in secondary third-party operator offload alternative routes to minimize flaring volumes during these third-party pipeline operator downstream activity restrictions and/or shut ins.

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District III

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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 65277

QUESTIONS

erator:		OGRID:	
OXY USA INC P.O. Box 4294 Houston, TX 772104294		16696	
		Action Number: 65277	
		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 wi	th the rest of the questions.	
Incident Well	Not answered.		
Incident Facility	[fAPP2127048458] Sand D	unes South Corridor CTB	
Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	1		
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 venting and/or flaring 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 v	enting and/or flaring that is or may	v 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	Yes		
during this event	Tes		
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	No		
health, the environment or fresh water			
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		
Institution of church in existence			
Equipment Involved			
	Not answered.		
Primary Equipment Involved	Not answered.	tream Activity Issue > Enterprise > Sand Dunes Central station >	
		tream Activity Issue > Enterprise > Sand Dunes Central station > Issues	
Primary Equipment Involved	Emergency Flare > Downs		
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Primary Equipment Involved Additional details for Equipment Involved. Please specify	Emergency Flare > Downs		
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Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details

Received by OCD: 12/6/2021 8:07:35 PM

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Natural Gas Flared (Mcf) Details	Cause: Other Other (Specify) Natural Gas Flared Released: 138 Mcf Recovered: 0 Mcf Lost: 138 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 or is this venting and/or flaring a result of downstream activity	Yes
Was notification of downstream activity received by you or your operator	Νο
Downstream OGRID that should have notified you or your operator	[713731] Enterprise Crude Pipeline LLC
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
Time notified of downstream activity requiring this venting and/or flaring	Not answered.

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	In this case, 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 operated 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. The high line pressure spike in Enterprise's Sand Dunes Central Station, as their downstream facility compression equipment was unable to handle the gas loads sent to them because of their central station facility was having compression equipment issues. Until Enterprise was able to handle the gas loads sent to them because of their central station route its stranded gas to a flare, as it was not able to push its gas into Enterprise's gas pipeline. Upon immediate flaring at Oxy's Sand Dunes South Corridor CTB, Oxy personnel immediately contacted Enterprise presented restring earoning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service pipeline system or issues with their downstream facility.
Steps taken to limit the duration and magnitude of venting and/or flaring	It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, that is beyond Oxy's control to avoid, prevent or foresee, to minimize emissions as much as possible as part of the overall steps taken to limit duration and magnitude of flaring. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The high line pressure spike in Enterprise sales gas service pipeline system impacted Oxy's ability to send gas to Enterprise's Sand Dunes Central Station, as their downstream facility compression equipment was unable to handle the gas loads sent to them because of their central station facility was having compression equipment issues. Until Enterprise was able to handle the volume of sales gas to a flare, as it was not able to push its gas into Enterprise's gas pipeline. Upon immediate flaring at Oxy's Sand Dunes South Corridor CTB, Oxy personnel immediately contacted Enterprise to determine cause. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service pipeline system or issues with their downstream facility. To significantly minimize emissions during this flaring event, Oxy production techs began to quickly shut-in multiple high GOR wells to minimize gas throughput at its Sand Dunes South Corridor CTB facility to reduce flaring volumes and attempted to offload as much gas as possible to secondary offloading third party operator, DCP. Once Enterprise downstream facility resumed normal working operations and began gas sales pipeline service once again, did flaring cease.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Oxy is limited in its 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 or prevent from happening or reoccurring. Enterprise 's downstream facility issues will re-occur from time to time, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise downstream facility and/or its facility equipment has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enterprise then restricts or cuts off Oxy's ability to send gas, which then prompts Oxy to route 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 during these circumstances. The limited actions that Oxy can do in this circumstance is to shut in multiple high GOR wells and engage in secondary third-party operator offload alternative routes to minimize flaring volumes during these third-party pipeline operator downstream activity restrictions and/or shut ins.

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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

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	65277
	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.	12/6/2021

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Action 65277