

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

Certificate of Analysis

Number: 6030-21060199-006A

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

June 22, 2021

Sampled By: Javier Lazo Sample Of: Gas Spot Sample Date: 06/18/2021 10:41 Sample Conditions: 82 psia, @ 93 °F Ambient: 89 °F 06/18/2021 10:41 Effective Date: Method: GPA-2261M Cylinder No: 1111-002405 Instrument: 70104124 (Inficon GC-MicroFusion) Last Inst. Cal.: 06/21/2021 0:00 AM Analyzed: 06/22/2021 08:54:19 by EJR

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.000	0.002	0.003		GPM TOTAL C2+	5.644
Nitrogen	2.237	2.247	2.707		GPM TOTAL C3+	3.045
Methane	71.658	71.976	49.651		GPM TOTAL iC5+	0.779
Carbon Dioxide	6.194	6.221	11.773			
Ethane	9.693	9.736	12.588	2.599		
Propane	5.475	5.499	10.427	1.512		
Iso-butane	0.663	0.666	1.665	0.218		
n-Butane	1.695	1.703	4.256	0.536		
Iso-pentane	0.466	0.468	1.452	0.171		
n-Pentane	0.507	0.509	1.579	0.184		
Hexanes Plus	0.969	0.973	3.899	0.424		
	99.557	100.000	100.000	5.644		
Calculated Physical Properties		Тс	otal	C6+		
Relative Density Real	Relative Density Real Gas)58	3.2176		
Calculated Molecular Weight		23	.26	93.19		
Compressibility Factor		0.99	961			
GPA 2172 Calculation	on:					
Calculated Gross B	TU per ft ³ @ 14.65 ps	sia & 60°F				
Real Gas Dry BTU		12	205	5113		
Water Sat. Gas Base BTU		11	84	5024		
Ideal, Gross HV - Dry at 14.65 psia		120	0.1	5113.2		
Ideal, Gross HV - Wet		117	9.1	5023.7		
Net BTU Dry Gas - real gas		10)94			
Net BTU Wet Gas - real gas		10)75			
Comments: H2S Fig Mcf/day						

Jesus Escobedo

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Quality Assurance:

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

Data reviewed by: Eric Ramirez, Analyst

EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Red Tank 19 CTBStart Date: 07/16/2021End Date: 07/16/2021Cause: Power FailureUration of event: 0.14 minutesDuration of event: 0.14 minutesMCF Volume Flared: 62Method of Flared Gas Measurement: Flare Meter

1. Reason why this event was beyond Operator's control:

This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process 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 or prevented by good design, operation, and preventative maintenance practices. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown, due to malfunction and/or alarms, production techs are promptly notified, and are instructed to assess the issue as soon as possible in order to take prompt corrective action and minimize emissions.

During this event, the flaring was caused by a blown fuse at the PLC causing the station to lose power and the station go off line. Oxy personnel immediately responded to replace the blown fuse to restore power and get the station back up and running. Once all units and equipment were back online, all flaring ceased. During the event, OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency in order to minimize emissions as much as possible.

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

In this case, Oxy responded immediately responded to replace the blown fuse and restore power to the station. Once the units were restarted and gas sales resumed, flaring ceased.

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 breakdown of equipment or process 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. Oxy cannot take any corrective actions to eliminate the cause and potential reoccurrence of compressor malfunctions as notwithstanding proper gas compressor design, operation, and maintenance; various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected. Oxy continually strives to maintain and operate its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a dedicated compression equipment preventative maintenance program in place.

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

Page 3 of 4

Action 43138

Q	UESTIONS		
Operator: OXY USA INC	OGRID: 16696		
P.O. Box 4294 Houston, TX 772104294	Action Number: 43138		
Houston, 1X 172104294	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	[30-025-45956] AVOGATO 30 31 STATE COM #011H		
Incident Facility	Not answered.		
Determination of Reporting Requirements			
	nd may provide addianal quidance		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers an			
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	Yes		
any 24-hour period from a single event	Νο		
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 v	enting 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	Νο		
Equipment Involved			
Primary Equipment Involved	Other (Specify)		
Additional details for Equipment Involved. Please specify	emergency flare due to power failure		
Representative Compositional Analysis of Vented or Flared Natural Gas			
Please provide the mole percent for the percentage questions in this group.			
Methane (CH4) percentage	72		
Nitrogen (N2) percentage, if greater than one percent	2		
Hydrogen Sulfide (H2S) PPM, rounded up	2		
Carbon Dioxide (C02) percentage, if greater than one percent	6		
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	ifications 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	07/16/2021		
Time venting and/or flaring was discovered or commenced	12:00 AM		
Time venting and/or flaring was terminated	12:08 AM		

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details

Cumulative hours during this event

0

Received by OCD: 8/18/2021 6:13:40 PM

Natural Gas Flared (Mcf) Details	Cause: Other Other (Specify) Natural Gas Flared Released: 62 Mcf Recovered: 0 Mcf Lost: 62 Mcf]	
Other Released Details	Not answered.	
Additional details for Measured or Estimated Volume(s). Please specify	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	Not answered.	
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	This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process 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 or prevented by good design, operation, and preventative maintenance practices. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown, due to malfunction and/or alarms, production techs are promptly notified, and are instructed to assess the issue as soon as possible in order to take prompt corrective action and minimize emissions. During this event, the flaring was caused by a blown fuse at the PLC causing the station to lose power and the station go off line. Oxy personnel immediately responded to replace the blown fuse to restore power and get the station back up and running. Once all units and equipment were back online, all flaring ceased. During the event, OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency in order to minimize emissions as much as possible.
Steps taken to limit the duration and magnitude of venting and/or flaring	In this case, Oxy responded immediately responded to replace the blown fuse and restore power to the station. Once the units were restarted and gas sales resumed, flaring ceased.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process 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. Oxy cannot take any corrective actions to eliminate the cause and potential reoccurrence of compressor malfunctions as notwithstanding proper gas compressor design, operation, and maintenance; various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected. Oxy continually strives to maintain and operate its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events

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CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	43138
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
shelbyschoepf	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.	8/18/2021

Page 5 of 4

Action 43138