

Carlsbad, NM 88220

Certificate of Analysis

Number: 6030-20020127-004A

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

Feb. 25, 2020

Chandler Montgomery
Occidental Petroleum
1502 W Commerce Dr.

Field: Cedar Canyon Sampled By: Chad Whitt
Station Name: Corral Fly 2_1 St 21H GL Sample Of: Gas Spot
Station Number: 181211 Sample Date: 02/20/2020 01:00

Station Number: 181211 Sample Date: 02/20/2020 01:00
Station Location: OXY Sample Conditions: 1161.4 psig, @ 85.7 °F Ambient: 40 °F

Sample Point:Meter RunEffective Date:02/20/2020 01:00Formation:QuarterlyMethod:GPA-2261MCounty:EddyCylinder No:1111-002459

Type of Sample: Spot-Cylinder Instrument: 6030_GC2 (Agilent 7890B)
Heat Trace Used: N/A Last Inst. Cal.: 02/17/2020 17:06 PM
Sampling Method: Fill and Purge Analyzed: 02/25/2020 10:15:03 by User1

Sampling Company: :SPL

Analytical Data

Nitrogen	1.298			14.65 psia		
	1.290	1.304	1.730		GPM TOTAL C2+	5.911
Methane	77.087	77.445	58.835		GPM TOTAL C3+	2.695
Carbon Dioxide	0.137	0.138	0.288		GPM TOTAL iC5+	0.353
Ethane	11.993	12.049	17.158	3.216		
Propane	5.740	5.767	12.043	1.585		
Iso-butane	0.710	0.713	1.963	0.233		
n-Butane	1.658	1.666	4.586	0.524		
Iso-pentane	0.320	0.321	1.097	0.117		
n-Pentane	0.334	0.336	1.148	0.122		
Hexanes Plus	0.260	0.261	1.152	0.114		
	99.537	100.000	100.000	5.911		
Calculated Physical Properties		To	otal	C6+		
Relative Density Real Ga		0.73	314	3.2176		
Calculated Molecular We		21	.12	93.19		
Compressibility Factor		0.99	964			
GPA 2172 Calculation:						
Calculated Gross BTU	per ft ³ @ 14.65 ps	sia & 60°F				
Real Gas Dry BTU		12	258	5113		
Water Sat. Gas Base BT	U	12	237	5024		
Ideal, Gross HV - Dry at	14.65 psia	125	3.8	5113.2		
Ideal, Gross HV - Wet	-	123	1.9			
Net BTU Dry Gas - real gas		11	142			
Net BTU Wet Gas - real	gas	11	122			

Comments: H2S Field Content 0 ppm

Mcf/day 1444.2

Caly Atm

Hydrocarbon Laboratory Manager

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality

assurance, unless otherwise stated.

Quality Assurance:

EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Corral 2S CS

Start Date: 08/05/2021 **End Date:** 08/05/2021

Cause: Malfunction

Duration of event: 50 minutes MCF Volume Flared: 329

Method 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 when the station unexpectedly shut down while an automation contractor was performing work no shut down alarms at the station. Oxy personnel immediately responded to reset the units and restart gas compression. 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 the shutdown in order to restart the gas compressors unit and restoring gas sales at which time 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.

<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 42376

QUESTIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	42376
	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	[30-015-44507] CORRAL FLY 02 01 STATE #021H		
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 due to compressor malfunction

Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.		
Methane (CH4) percentage	77	
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	0	
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	08/05/2021	
Time venting and/or flaring was discovered or commenced	12:00 AM	
Time venting and/or flaring was terminated	12:50 AM	
Cumulative hours 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 Released: 329 Mcf Recovered: 0 Mcf Lost: 329 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 when the station unexpectedly shut down while an automation contractor was performing work no shut down alarms at the station. Oxy personnel immediately responded to reset the units and restart gas compression. 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 the shutdown in order to restart the gas compressors unit and restoring gas sales at which time 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. Oxy has a dedicated compression equipment preventative maintenance program in place.

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CONDITIONS

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P.O. Box 4294	Action Number:
Houston, TX 772104294	42376
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
shelbyschoep	of 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.	8/16/2021