

Volumetrics Inc.

3710 East Rio Grande St, Victoria, TX-77901

Phone: 361-827-4024

Company: OXY USA INC Field/Location: NMSW

Station Name: CEDAR CANYON TO ENTERPRISE

Station Number : NA

Sample Date: 3/10/22 2:40 PM Analysis Date: 3/17/22 8:30 PM Instrument: INFICON Calibration/Verification Date: 3/17/2022

Heat Trace used: YES Work Order: 4000535215 Sampled by: OXY/JE

Sample Type : SPOT-CYLINDER

Sample Temperature (F): NA Sample Pressure (PSIG): 1237 Flow rate (MCF/Day): NA Ambient Temperature (F): 50

Sampling method: FILL & EMPTY

Cylinder Number: 27772

NATURAL GAS ANALYSIS: GPA 2261

	Un-Normalized	Normalized	GPM	GPM	GPM
Components	Mol%	Mol%	14.650	14.730	15.025
Hydrogen Sulfide	0.0000	0.0000			
Nitrogen	1.4010	1.4329			
Methane	73.2835	74.9537			
Carbon Dioxide	0.1272	0.1301			
Ethane	12.0004	12.2739	3.277	3.295	3.361
Propane	6.1002	6.2392	1.716	1.726	1.760
Isobutane	0.8643	0.8840	0.289	0.290	0.296
N-butane	2.1629	2.2122	0.696	0.700	0.714
Isopentane	0.5139	0.5256	0.192	0.193	0.197
N-Pentane	0.5755	0.5886	0.213	0.214	0.218
Hexanes(C6's)	0.3556	0.3637	0.149	0.150	0.153
Heptanes (C7's)	0.2741	0.2804	0.129	0.130	0.132
Octanes (C8's)	0.1001	0.1024	0.052	0.053	0.054
Nonanes Plus (C9+)	0.0130	0.0133	0.007	0.008	0.008
Total	97.7718	100.0000			

Physical Properties (Calculated)	14.650 psia	14.730 psia	15.025 psia
Total GPM Ethane+	6.721	6.758	6.893
Total GPM Iso-Pentane+	0.743	0.747	0.762
Compressibility (Z)	0.9959	0.9959	0.9958
Specific Gravity (Air=1) @ 60 °F	0.7713	0.7713	0.7714
Molecular Weight	22.257	22.257	22.257

Gross Heating Value	14.650 psia	14.730 psia	15.025 psia
Dry, Real (BTU/Ft ³)	1318.1	1325.3	1352.0
Wet, Real (BTU/Ft ³)	1295.0	1302.1	1328.3
Dry, Ideal (BTU/Ft ³)	1312.7	1319.9	1346.3
Wet, Ideal (BTU/Ft ³)	1289.7	1296.8	1322.7

Temperature base 60 °F

Comment: FIELD H2S =0 PPM

Verified by

Mostaq Ahammad Petroleum Chemist Approved by

Deann Friend

Laboratory Manager

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Cedar Canyon CDP Flare Date: 11/02/2023

Duration of Event: 50 Minutes **MCF Flared:** 397

Start Time: 01:20 PM End Time: 02:10 PM

Cause: Emergency Flare > Compression Equipment Malfunctions > Section 9 CS

Method of Flared Gas Measurement: Gas Flare Meter

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 compressor station operator, which impacted Oxy's ability to send gas to them. In this case, the compression equipment at the Section 9 compressor station, unexpectedly malfunctioned due detonation issue, which then prompted automatic shutdown of all the units, which in turn triggered a flaring event to occur. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner and when malfunctions occur, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit. Compression malfunctions occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of equipment malfunction from occurring. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. Though a sudden and unexpected malfunctioning compressor issue occurred at the Section 9 compressor station, OXY routed the overflow of stranded gas to flare at the Cedar Canyon CDP to mitigate emissions for this event as the flare at this location can accommodate a higher volume of gas and to protect equipment, environment, and personnel.

The Cedar Canyon CDP is a gas gathering flare system for multiple tank batteries across Oxy's defined Cedar Canyon area. Oxy made every effort to shut in as much of production/wells as possible, yet it was absolutely critical to Oxy's operational safety and start up procedures to allow some production to occur across the area, as it was necessary to maintain a minimal amount of gas flow to restart the compression equipment, specifically the gas compressors, when Section 9 compressor station was ready to bring the units back online.

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 to lessen emissions as much as possible. In this case, the compression equipment at the Section 9 compressor station, unexpectedly malfunctioned due detonation issue, which then

prompted automatic shutdown of all the units, which in turn triggered a flaring event to occur. As soon as flaring was triggered, field personnel engaged in Oxy's third party pipeline operation curtailment reactive stratagems and assisted with ensuring field area's mitigation optimizers cut injection rates to wells in the field to reduce injection and sales gas across the area. This event is out of OXY's control, yet OXY made every effort to control and minimize emissions as much as possible.

3. Corrective Actions taken to eliminate the cause and reoccurrence of venting or flaring:

Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate all its facility locations equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive compression equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to continue with its compression equipment preventative maintenance program for all its facilities and continually work with its compression rental owners to resolve those issues in a timely manner, should they continue to occur suddenly and without warning.

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

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**

DEFINITIONS

Action 286859

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	286859
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:

- this application's operator, hereinafter "this operator";
- · venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

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QUESTIONS

Action 286859

Phone: (505) 476-3470 Fax: (505) 476-3462			
C	QUESTIONS		
Operator:		OGRID:	
OXY USA INC P.O. Box 4294 Houston, TX 772104294		16696 Action Number:	
		286859	
		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 w	vith the rest of the questions.	
Incident Well	Unavailable.		
Incident Facility	[fAPP2126642013] CEDAR	R CANOYN GAS GATHERING	
Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	and may provide addional guidanc	e.	
Was this vent or flare caused by an emergency or malfunction	Yes		
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No		
Is this considered a submission for a vent or flare event	Yes, minor venting and/o	r 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			
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes		
Did this vent or flare 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 vent or flare 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 > Comp	oression Equipment Malfunctions > Section 9 CS	
Democratative Communitional Analysis of Vented on Flored Natural Co.			
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			
Hydrogen Sulfide (H2S) PPM, rounded up			
Carbon Dioxide (C02) percentage, if greater than one percent	0 0		
Oxygen (02) percentage, if greater than one percent	0		
Oxygen (02) percentage, ii greater trian one percent	U		
If you are venting and/or flaring because of Pipeline Specification, please provide the required spe	cifications for each gas.		
Methane (CH4) percentage quality requirement	Not answered.		
Nitrogen (N2) percentage quality requirement	Not answered.	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.		

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QUESTIONS, Page 2

Action 286859

QUESTIONS	(continued)
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Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	286859
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced 11/02/2023	
Time vent or flare was discovered or commenced	01:20 PM
Time vent or flare was terminated 02:10 PM	
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: 397 Mcf Recovered: 0 Mcf Lost: 397 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 this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste		
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True	
Please explain reason for why this event was beyond this 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 compressor station operator, which impacted Oxy's ability to send gas to them. In this case, the compression equipment at the Section 9 compressor station, unexpectedly malfunctioned due detonation issue, which then prompted automatic shutdown of all the units, which in turn triggered a flaring event to occur. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner and when malfunctions occur, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit. Compression malfunctions occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of equipment malfunction from occurring. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. Though a sudden and unexpected malfunctioning compressor issue occurred at the Section 9 compressor station, OXY routed the overflow of stranded gas to flare at the Cedar Canyon CDP to mitigate emissions for this event as the flare at this location can accommodate a higher volume of gas and to protect equipment, environment, and personnel.	
	It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable	

Steps taken to limit the duration and magnitude of vent or flare	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 to lessen emissions as much as possible. In this case, the compression equipment at the Section 9 compressor station, unexpectedly malfunctioned due detonation issue, which then prompted automatic shutdown of all the units, which in turn triggered a flaring event to occur. As soon as flaring was triggered, field personnel engaged in Oxy's third party pipeline operation curtailment reactive stratagems and assisted with ensuring field area's mitigation optimizers cut injection rates to wells in the field to reduce injection and sales gas across the area. This event is out of OXY's control, yet OXY made every effort to control and minimize emissions as much as possible.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate all its facility contains equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive compression equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to continue with its compression equipment preventative maintenance program for all its facilities and continually work with its compression rental owners to resolve those issues in a timely manner, should they continue to occur suddenly and without warning.

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

V	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
V	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
V	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
V	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
V	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

Action 286859

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Operator:	OGRID:
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P.O. Box 4294	Action Number:
Houston, TX 772104294	286859
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Crea	ated By	Condition	Condition Date
ma	arialuna2	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.	11/17/2023