

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 28 COMP STA FUEL INLET

Station Number: NA

 Sample Date:
 5/6/22 12:20 PM

 Analysis Date:
 5/9/22 1:00 PM

 Instrument:
 INFICON

 Calibration/Verification Date:
 5/9/2022

 Heat Trace used:
 YES

Work Order: 4000595140 Sampled by: OXY/JE

Sample Type : SPOT-CYLINDER
Sample Temperature (F): NA
Sample Pressure (PSIG): 65
Flow rate (MCF/Day): NA

Ambient Temperature (F): 92
Sampling method: FILL & EMPTY

Cylinder Number: 27765

NATURAL GAS ANALYSIS: GPA 2261					
Components	Un-Normalized Mol%	Normalized Mol%	GPM 14.650	GPM 14.730	GPM 15.025
Hydrogen Sulfide	0.0000	0.0000			
Nitrogen	1.3966	1.4225			
Methane	73.8165	75.1904			
Carbon Dioxide	0.2787	0.2839			
Ethane	11.7436	11.9622	3.194	3.212	3.276
Propane	5.8394	5.9481	1.636	1.645	1.678
sobutane	0.7746	0.7890	0.258	0.259	0.264
N-butane	1.9443	1.9804	0.623	0.627	0.639
Isopentane	0.4841	0.4931	0.180	0.181	0.185
N-Pentane	0.5569	0.5672	0.205	0.206	0.211
Hexanes(C6's)	0.3958	0.4031	0.166	0.166	0.170
Heptanes (C7's)	0.4035	0.4110	0.189	0.190	0.194
Octanes (C8's)	0.3339	0.3401	0.174	0.175	0.178
Nonanes Plus (C9+)	0.2052	0.2090	0.117	0.118	0.120
Total	98.1730	100.0000			

Physical Properties (Calculated)	14.650 psia	14.730 psia	15.025 psia
Total GPM Ethane+	6.742	6.780	6.916
Total GPM Iso-Pentane+	1.031	1.037	1.059
Compressibility (Z)	0.9958	0.9957	0.9956
Specific Gravity (Air=1) @ 60 °F	0.7832	0.7832	0.7833
Molecular Weight	22.596	22.596	22.596
Gross Heating Value	14.650 psia	14.730 psia	15.025 psia
Dry, Real (BTU/Ft ³)	1332.6	1340.0	1367.0
Wet, Real (BTU/Ft ³)	1309.3	1316.6	1343.1
Dry, Ideal (BTU/Ft ³)	1327.0	1334.2	1361.0
Wet, Ideal (BTU/Ft ³)	1303.8	1310.9	1337.2

Temperature base 60 °F

Comment: FIELD H2S = 0 PPM

Verified by

Mostaq Ahammad Petroleum Chemist Approved by

Deann Friend

Deann Friend Laboratory Manager

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Cedar Canyon 28-4 CTB Flare Date: 12/07/2023

Duration of Event: 7 Hours 24 Minutes **MCF Flared:** 387

Start Time: 10:15 AM End Time: 05:39 PM

Cause: Emergency Flare > Third Party > USA Compression > Salt Flat CS > Compression Equipment Issues

Method of Flared Gas Measurement: Gas 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 by good design, operation, and preventative maintenance practices. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, the compression equipment at Oxy's Salt Flats compression station, had several gas compressors shut down on their end, which caused them to instigate sudden and unexpected high field pressure, which in turn, prompted Oxy's Cedar Canyon 28-4 CTB to pressure up automatically and trigger intermittent flaring events to occur, within a 24-hour period. This event could not have been foreseen, avoided, or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel. Though sudden and unexpected malfunctioning compressor issues occurred at the Salt Flat compressor station, OXY routed the overflow of stranded gas to flare at the Cedar Canyon 28-4 CTB to mitigate emissions for this event as the flare at this location can accommodate a higher volume of gas and as a safety measure effort to protect equipment, environment, and personnel.

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 Oxy's Salt Flats compression station, had several gas compressors shut down on their end, which caused them to instigate sudden and unexpected high field pressure, which in turn, prompted Oxy's Cedar Canyon 28-4 CTB to pressure up automatically and trigger intermittent flaring events to occur, within a 24-hour period. This event could not have been foreseen, avoided, or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel. As soon as flaring occurred, the facility's well optimizer adjusted injection rates and shut-in wells to mitigate and subsequently cease flaring during each occurrence. Though sudden and unexpected malfunctioning compressor issues occurred at the Salt Flat compressor station, OXY routed the overflow of stranded gas to flare at the Cedar Canyon 28-4 CTB to mitigate emissions for this event as the flare at this location can accommodate a higher volume of gas and as a safety measure effort to protect equipment, environment, and personnel.

Page **1** of **2**

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 302404

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	302404
	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 302404

Phone:(505) 476-3470 Fax:(505) 476-3462		
Q	UESTIONS	
Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294		OGRID: 16696 Action Number: 302404
Headen, 17(7)210-1201		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	ith the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAB1901048503] CEDAR	CANYON 28-4 CTB
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	nd mav provide addional quidance	3
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/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	venting and/or flaring that is or ma	v be a major or minor release under 19 15 29 7 NMAC
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	y as a major or minor resource and or recreating the major or minor.
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	1	
Primary Equipment Involved	Other (Specify)	
Additional details for Equipment Involved. Please specify	Emergency Flare > Third F Equipment Issues	Party > USA Compression > Salt Flat CS > Compression
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	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 spec		
Methane (CH4) percentage quality requirement	Not answered.	
Nitrogen (N2) percentage quality requirement	Not answered.	
Hydrogen Sufide (H2S) PPM quality requirement		
Carbon Dioxide (CO2) percentage quality requirement Not answe		

Not answered.

Oxygen (02) percentage quality requirement

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QUESTIONS, Page 2

Action 302404

QUESTIONS (continue

40-0000 (0000000)				
Operator:	OGRID:			
OXY USA INC	16696			
P.O. Box 4294	Action Number:			
Houston, TX 772104294	302404			
	Action Type:			
	[C-129] Venting and/or Flaring (C-129)			
QUESTIONS				

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/07/2023
Time vent or flare was discovered or commenced	10:15 AM
Time vent or flare was terminated	05:39 PM
Cumulative hours during this event	7

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: 387 Mcf Recovered: 0 Mcf Lost: 387 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	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 by good design, operation, and preventative maintenance practices. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, the compression equipment at Oxy's Salt Flats compression station, had several gas compressors shut down on their end, which caused them to instigate sudden and unexpected high field pressure, which in turn, prompted Oxy's Cedar Canyon 28- 4 CTB to pressure up automatically and trigger intermittent flaring events to occur, within a 24-hour period. This event could not have been foreseen, avoided, or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel. Though sudden and unexpected malfunctioning compressor issues occurred at the Salt Flat compressor station, OXY routed the overflow of stranded gas to flare at the Cedar Canyon 28-4 CTB to mitigate emissions for this event as the flare at this location can accommodate a higher volume of gas and as a safety measure effort to protect equipment, environment, and personnel.
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Steps taken to limit the duration and magnitude of vent or flare	emissions as much as possible. In this case, the compression equipment at Oxy's Salt Flats compression station, had several gas compressors shut down on their end, which caused them to instigate sudden and unexpected high field pressure, which in turn, prompted Oxy's Cedar Canyon 28-4 CTB to pressure up automatically and trigger intermittent flaring events to occur, within a 24-hour period. This event could not have been foreseen, avoided, or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel. As soon as flaring occurred, the facility's well optimizer adjusted injection rates and shut-in wells to mitigate and subsequently cease flaring during each occurrence. Though sudden and unexpected malfunctioning compressor issues occurred at the Salt Flat compressor station, OXY routed the overflow of stranded gas to flare at the Cedar Canyon 28-4 CTB to mitigate emissions for this event as the flare at this location can accommodate a higher volume of gas and as a safety measure effort to protect equipment, environment, and personnel.
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 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

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ACKNOWLEDGMENTS

Action 302404

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	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

✓	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.
⋉	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 302404

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	302404
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By		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.	1/10/2024