



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 CTB PRODUCTION (FMP)
Station Number : 14948P
Sample Date: 12/2/21 12:09 PM
Analysis Date: 12/8/21 12:50 PM
Instrument: INFICON
Calibration/Verification Date: 12/8/2021
Heat Trace used: YES

Work Order: 4000409591
Sampled by: VOLUMETRICS/RA
Sample Type : SPOT-CYLINDER
Sample Temperature (F): 79.71
Sample Pressure (PSIG): 106.69
Flow rate (MCF/Day): 5307.62
Ambient Temperature (F): 70
Sampling method: FILL & EMPTY
Cylinder Number: 5048

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	1.4604	1.4913			
Methane	74.1707	75.7392			
Carbon Dioxide	0.1406	0.1436			
Ethane	11.8985	12.1501	3.244	3.262	3.327
Propane	5.8873	6.0118	1.653	1.662	1.696
Isobutane	0.7964	0.8132	0.266	0.267	0.272
N-butane	1.9178	1.9584	0.616	0.620	0.632
Isopentane	0.4481	0.4576	0.167	0.168	0.171
N-Pentane	0.4910	0.5014	0.181	0.182	0.186
Hexanes(C6's)	0.2913	0.2975	0.122	0.123	0.125
Heptanes (C7's)	0.2779	0.2837	0.131	0.131	0.134
Octanes (C8's)	0.1235	0.1261	0.064	0.065	0.066
Nonanes Plus (C9+)	0.0256	0.0261	0.015	0.015	0.015
Total	97.9291	100.0000			

Physical Properties (Calculated)

	14.650 psia	14.730 psia	15.025 psia
Total GPM Ethane+	6.459	6.495	6.624
Total GPM Iso-Pentane+	0.680	0.684	0.697
Compressibility (Z)	0.9961	0.9960	0.9960
Specific Gravity (Air=1) @ 60 °F	0.7608	0.7608	0.7608
Molecular Weight	21.957	21.957	21.957

Gross Heating Value

	14.650 psia	14.730 psia	15.025 psia
Dry, Real (BTU/Ft ³)	1300.5	1307.7	1333.9
Wet, Real (BTU/Ft ³)	1277.7	1284.8	1310.5
Dry, Ideal (BTU/Ft ³)	1295.4	1302.5	1328.5
Wet, Ideal (BTU/Ft ³)	1272.7	1279.7	1305.3

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 28-4 CTB**Flaring Date:** 02/04/2022**Duration of event:** 1 Hour**MCF Flared:** 106**Start Time:** 01:15 PM**End Time:** 02:15 PM**Cause:** Third Party Operated Compressor Station > USA Compression > Freezing Weather Conditions > Equipment Issues**Method of Flared Gas Measurement:** Gas Flare Meter**Comments:** N/A

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 compression station operator, which impacted Oxy's ability to send gas to a third-party gas pipeline. This interruption, restriction, or complete shut-in of the gas service system pipeline by a third-party pipeline compression station 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. In this case, this emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption of the gas service system pipeline by USA Compression's compressor station, which had compression equipment issues due to their discharge line froze resulting from the extreme freezing temperatures. Due to USA Compression's compressor station have facility service and equipment issues, Oxy was unable to push its gas into the gas service system pipeline, and therefore, OXY was forced to send it gas to flare, until USA Compression's facility resolved their issues and resumed normal working operation service. All facility operations and equipment were working as designed prior to the sudden and without warning interruption of USA Compressions compression services.

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

It is OXY's policy to route all stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon flaring, gas compressor unit and/or multiple unit shutdown, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, this emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption of the gas service system pipeline by USA Compression's compressor station, which had compression equipment issues due to their discharge line froze resulting from the extreme freezing temperatures. Due to USA Compression's compressor station have facility service and equipment issues, Oxy was unable to push its gas into the gas service system

pipeline, and therefore, OXY was forced to send it gas to flare, until USA Compression's facility resolved their issues and resumed normal working operation service. All facility operations and equipment were working as designed prior to the sudden and without warning interruption of USA Compressions compression services. Oxy production techs, who were on-site at the time of the event, upon noticing flaring, immediately inspected Oxy's own compression equipment, and finding no fault, did immediately contact DCP and USA Compression station personnel. USA Compression personnel indicated that their discharge line was frozen due to the weather and were resolving the issue. USA Compression adjusted their methanol injection rates in the discharge line to potentially prevent a recurrence of this issue. compressor had malfunctioned and shutdown, but that it was getting resolved.

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

Oxy is limited in the corrective actions to eliminate the cause and potential reoccurrence of a USA Compression owned and operated compressor station interruption or shut in as this control issue is out of Oxy's control to avoid, prevent from happening or reoccurring. USA Compression's compressor station may have issues which will reoccur from time to time, such as sudden and without warning, complete shut-ins, interruptions of service, and/or very high-pressure spikes, which in turn, directly impacts Oxy's ability to send gas to them. When situations such as those occur, USA Compression then restricts or interrupts Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into their gas compression line, to flare. OXY makes every effort to control and minimize emissions as much as possible. The only actions that Oxy can take and handle that is within its control, is to continually communicate with USA Compression personnel during these types of situations.

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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

DEFINITIONS

Action 82815

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 82815
	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 82815

QUESTIONS

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	Action Number: 82815
	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	Not answered.
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 and may provide additional guidance.	
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 venting and/or flaring that is or may 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
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 > Third Party Operated Compressor Station > USA Compression > Freezing Weather Conditions > Equipment Issues

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	76
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
Oxygen (O2) 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 Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 82815

QUESTIONS (continued)

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	Action Number: 82815
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/04/2022
Time vent or flare was discovered or commenced	01:15 PM
Time vent or flare was terminated	02:15 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: 106 Mcf Recovered: 0 Mcf Lost: 106 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 compression station operator, which impacted Oxy's ability to send gas to a third-party gas pipeline. This interruption, restriction, or complete shut-in of the gas service system pipeline by a third-party pipeline compression station 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. In this case, this emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption of the gas service system pipeline by USA Compression's compressor station, which had compression equipment issues due to their discharge line froze resulting from the extreme freezing temperatures. Due to USA Compression's compressor station have facility service and equipment issues, Oxy was unable to push its gas into the gas service system pipeline , and therefore, OXY was forced to send it gas to flare, until USA Compression's facility resolved their issues and resumed normal working operation service. All facility operations and equipment were working as designed prior to the sudden and without warning interruption of USA Compressions compression services.
Steps taken to limit the duration and magnitude of vent or flare	It is OXY's policy to route all stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon flaring, gas compressor unit and/or multiple unit shutdown, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, this emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption of the gas service system pipeline by USA Compression's compressor station, which had compression equipment issues due to their discharge line froze resulting from the extreme freezing temperatures. Due to USA Compression's compressor station have facility service and equipment issues, Oxy was unable to push its gas into the gas service system pipeline, and therefore, OXY was forced to send it gas to flare, until USA Compression's facility resolved their issues and resumed normal working operation service. All facility operations and equipment were working as designed prior to the sudden and without warning interruption of USA Compressions compression services. Oxy production techs, who were on-site at the time of the event, upon noticing flaring, immediately inspected Oxy's own compression equipment, and finding no fault, did immediately contact DCP and USA Compression station personnel. USA Compression personnel indicated that their discharge line was frozen due to the weather and were resolving the issue.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in the corrective actions to eliminate the cause and potential reoccurrence of a USA Compression owned and operated compressor station interruption or shut in as this control issue is out of Oxy's control to avoid, prevent from happening or reoccurring. USA Compression's compressor station may have issues which will reoccur from time to time, such as sudden and without warning, complete shut-ins, interruptions of service, and/or very high-pressure spikes, which in turn, directly impacts Oxy's ability to send gas to them. When situations such as those occur, USA Compression then restricts or interrupts Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into their gas compression line, to flare. OXY makes every effort to control and minimize emissions as much as possible. The only actions that Oxy can take and handle that is within its control, is to continually communicate with USA Compression personnel during these types of situations.

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ACKNOWLEDGMENTS

Action 82815

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Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 82815
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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.
☒	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.
☒	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.
☒	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 82815

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	Action Number: 82815
	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.	2/19/2022