Volumetrics Inc.
3710 East Rio Grande St, Victoria, TX-77901
Phone: 361-827-4024

Company:	OXY USA INC	**Work Order:**	4000356729
Field/Location :	NMSW	**Sampled by:**	VOLUMETRICS/JA
Station Name :	CYPRESS 34 FEDERAL 1 PRODUCTION (FMP)	**Sample Type :**	SPOT-CYLINDER
Station Number :	83217	**Sample Temperature (F):**	75
Sample Date:	9/17/21 8:45 AM	**Sample Pressure (PSIG):**	73
Analysis Date:	9/21/21 10:00 AM	**Flow rate (MCF/Day):**	543.3
Instrument:	INFICON	**Ambient Temperature (F):**	75
Calibration/Verification Date:	9/21/2021	**Sampling method:**	FILL & EMPTY
Heat Trace used:	YES	**Cylinder Number:**	5030

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	2.2401	2.2974			
Methane	74.1374	76.0320			
Carbon Dioxide	3.0458	3.1237			
Ethane	10.1594	10.4190	2.780	2.796	2.851
Propane	4.8242	4.9475	1.360	1.367	1.395
Isobutane	0.5700	0.5845	0.191	0.192	0.196
N-butane	1.3724	1.4075	0.443	0.445	0.454
Isopentane	0.3106	0.3186	0.116	0.117	0.119
N-Pentane	0.3372	0.3459	0.125	0.126	0.128
Hexanes(C6's)	0.2315	0.2374	0.097	0.098	0.100
Heptanes (C7's)	0.1903	0.1952	0.090	0.090	0.092
Octanes (C8's)	0.0746	0.0765	0.039	0.039	0.040
Nonanes Plus (C9+)	0.0145	0.0148	0.008	0.008	0.009
Total	**97.5081**	**100.0000**			

Physical Properties (Calculated)	**14.650 psia**	**14.730 psia**	**15.025 psia**
Total GPM Ethane+	5.250	5.279	5.384
Total GPM Iso-Pentane+	0.476	0.479	0.488
Compressibility (Z)	0.9965	0.9965	0.9964
Specific Gravity (Air=1) @ 60 °F	0.7507	0.7507	0.7507
Molecular Weight	21.674	21.674	21.674

Gross Heating Value	**14.650 psia**	**14.730 psia**	**15.025 psia**
Dry, Real (BTU/Ft^3)	1196.6	1203.2	1227.4
Wet, Real (BTU/Ft^3)	1175.7	1182.1	1205.9
Dry, Ideal (BTU/Ft^3)	1192.4	1198.9	1223.0
Wet, Ideal (BTU/Ft^3)	1171.6	1178.0	1201.6

Temperature base 60 °F

Comment: FIELD H2S =0 PPM

Verified by

Mostaq Ahammad
Petroleum Chemist

Approved by

Deann Friend
Deann Friend
Laboratory Manager

UPSET VENTING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Cypress 34-1 Battery **Vent Date:** 01/02/2022

Duration of event: 4 Hour 30 Minutes **MCF Flared:** 87

Start Time: 06:30 AM **End Time:** 11:00 AM

Cause: Downstream Activity Issue > Enterprise > Extreme Freezing Weather > Compression Equipment Issues

Method of Flared Gas Measurement: Gas Vent Meter

Comments: This upset event was not caused by any wells associated with the facility. 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 operator, which impacted Oxy's ability to send gas to a third-party gas pipeline.

---

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

In this case, the restriction/shut in of the Enterprise sales gas service pipeline system impacted Oxy's upstream facility's ability to send gas as Enterprise's downstream facility compression equipment was unable to handle the gas loads sent to them because of the extreme freezing weather affecting their equipment. Until Enterprise's techs were able to resolve their downstream facility and/or compression equipment issues, Oxy was unable to push its gas into their gas sales service pipeline as there were restrictions and a shut-in of the gas sales service pipeline to Oxy and thusly, the gas began to vent. To minimize emissions, Oxy production techs began to shut in their wells until Enterprise was back to normal working service and they were able to handle the volume of sales gas sent to them. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service pipeline system or issues with their downstream facility. Oxy vented minimal emissions as Oxy production tech worked swiftly and diligently to shut in the wells, during extreme freezing weather conditions. It was noted during communication with Enterprise personnel during this event, that Enterprise had multiple issues across the New Mexico area because of the extreme freezing weather conditions.

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

The steps take to limit the duration and magnitude of venting during this event was for Oxy production techs to begin to shut in the wells until Enterprise was back to normal working service and they were able to handle the volume of sales gas sent to them. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service pipeline system or issues with their downstream facility because of the extreme freezing weather conditions. Oxy vented minimal emissions as Oxy production techs worked swiftly and diligently to shut in the wells, during extreme freezing weather conditions.

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

Oxy is limited in its corrective actions to eliminate the cause and potential reoccurrence of an Enterprise gas flow pipeline restriction or shut in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening or reoccurring. Enterprise 's downstream facility issues will re-occur from time to time, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise downstream

facility and/or its facility equipment has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enterprise then restricts or cuts off Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into the Enterprise gas pipeline, to vent. OXY makes every effort to control and minimize emissions as much as possible during these circumstances. The limited actions that Oxy can do in this circumstance is to shut in its wells in a swift and diligent manner while keeping constant communication with Enterprise personnel.

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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

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 73028
	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 73028

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 73028
	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	**[fAPP2126639397] CYPRESS 34-1 BATTERY**

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 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	Vent > Downstream Activity Issue > Enterprise > Extreme Freezing Weather > Compression 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	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	3
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.*

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QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 73028
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/02/2022
Time vent or flare was discovered or commenced	06:30 AM
Time vent or flare was terminated	11:00 AM
Cumulative hours during this event	4

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other | Other (Specify) | Natural Gas Vented | Released: 85 Mcf | Recovered: 0 Mcf | Lost: 85 Mcf]
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Additional details for Measured or Estimated Volume(s). Please specify	Vent Gas 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	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[713731] Enterprise Crude Pipeline LLC
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	In this case, the restriction/shut in of the Enterprise sales gas service pipeline system impacted Oxy's upstream facility's ability to send gas as Enterprise's downstream facility compression equipment was unable to handle the gas loads sent to them because of the extreme freezing weather affecting their equipment. Until Enterprise's techs were able to resolve their downstream facility and/or compression equipment issues, Oxy was unable to push its gas into their gas sales service pipeline as there were restrictions and a shut-in of the gas sales service pipeline to Oxy and thusly, the gas began to vent. To minimize emissions, Oxy production techs began to shut in their wells until Enterprise was back to normal working service and they were able to handle the volume of sales gas sent to them. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service pipeline system or issues with their downstream facility. Oxy vented minimal emissions as Oxy production tech worked swiftly and diligently to shut in the wells, during extreme freezing weather conditions. It was noted during communication with Enterprise personnel during this event, that Enterprise had multiple issues across the New Mexico area because of the extreme freezing weather conditions.
Steps taken to limit the duration and magnitude of vent or flare	The steps take to limit the duration and magnitude of venting during this event was for Oxy production techs to begin to shut in the wells until Enterprise was back to normal working service and they were able to handle the volume of sales gas sent to them. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service pipeline system or issues with their downstream facility because of the extreme freezing weather conditions. Oxy vented minimal emissions as Oxy production techs worked swiftly and diligently to shut in the wells, during extreme freezing weather conditions.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in its corrective actions to eliminate the cause and potential reoccurrence of an Enterprise gas flow pipeline restriction or shut in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening or reoccurring. Enterprise 's downstream facility issues will re-occur from time to time, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise downstream facility and/or its facility equipment has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enterprise then restricts or cuts off Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into the Enterprise gas pipeline, to vent. OXY makes every effort to control and minimize emissions as much as possible during these circumstances. The limited actions that Oxy can do in this circumstance is to shut in its wells in a swift and diligent manner while keeping constant communication with Enterprise personnel.

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ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 73028
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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 73028

CONDITIONS

Operator:	OGRID:
OXY USA INC P.O. Box 4294 Houston, TX 772104294	16696
	Action Number: 73028
	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.	1/17/2022