

OXY USA Inc.

Lost Tank 30-19 CTB

June 2020 Revision #2

Mass Fraction Conversion Oil Tank Flash - Speciation

Basis: 1 lb-mol

Component	Mol %	MW (lb/lb-mol)	Fraction*MW (lb/lb-mol)	Wt %	Component LHV (Btu/scf)	Gas LHV (Btu/scf)
Hydrogen Sulfide (H ₂ S)	0.0010	34.082	0.000341	0.0008	586.8	0.005868
Nitrogen (N ₂)	0.0038	28.0135	0.001072	0.0025	0	0
Carbon Dioxide (CO ₂)	0.0202	44.01	0.088892	0.2068	0	0
Methane (CH ₄)	15.0197	16.042	2.409461	5.6048	909.4	137
Ethane (C ₂ H ₆)	24.7042	30.069	7.428294	17.2789	1618.7	400
Propane (C ₃ H ₈)	28.6977	44.096	12.654540	29.4354	2314.9	664
IsoButane (i-C ₄ H ₁₀)	4.8814	58.122	2.837173	6.5996	3000.4	146
N-Butane (n-C ₄ H ₁₀)	13.4908	58.122	7.841138	18.2393	3010.8	406
IsoPentane (i-C ₅ H ₁₂)	3.1000	72.149	2.236634	5.2026	3699	115
N-Pentane (n-C ₅ H ₁₂)	3.4579	72.149	2.494829	5.8032	3706.9	128
Other Hexanes	2.7859	86.175	2.400787	5.5327	4403.8	123
Heptanes (C ₇ H ₁₆)	0.9268	100.202	0.928697	2.1602	5100	47.27
Octanes +	0.3124	114.229	0.356896	0.8513	5796	18.11
n-Hexane (n-C ₆ H ₁₄)	0.9121	86.175	0.785965	1.8282	5100	46.51
2,2,4 Trimethylpentane (C ₈ H ₁₈)	0.0284	114.229	0.032436	0.0754	5778.8	1.64
Benzene (C ₆ H ₆)	0.2034	78.112	0.158866	0.3695	3590.9	7.3
Toluene (C ₇ H ₈)	0.1112	92.138	0.102475	0.2384	4273.7	4.75
Ethylbenzene (C ₈ H ₁₀)	0.0074	106.165	0.007825	0.0182	4970.4	0.3664
Xylenes (C ₈ H ₁₀)	0.0336	106.165	0.035653	0.0829	4958.1	1.67
Water (H ₂ O)	1.1213	18.02	0.202053	0.4699	0	0
TOTAL (less H ₂ S)	100.0		43.00	100.0	--	2247

Promax - Oil Flash Speciation

Total HC	99.321
Total VOC	76.437
Total HAP	2.613

VCU FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Lost Tank 30-19 CTB**Date:** 07/30/2021**Duration of event:** >8 hours/day**MCF Flared:** 142**Start Time:** 12:00 AM**End Time:** 11:59 PM**Cause:** Routine Combustion of storage tank vapors using an enclosed combustion device (VCU)**Method of Flared Gas Measurement:** VCU Meter tracking combusted gas**Well API Associated with Facility:** 30-025-45182 Lost Tank 30-19 Federal Com 31H

Comments: No wells were involved with this flaring event as this event is due to combustion of storage tank vapors by an enclosed combustion device is used routinely at this facility pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.

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

On May 17, 2021, NMOCD issued a notice entitled, "Frequently Asked Questions Regarding the Natural Gas Waste Rules," and states that "... pursuant to 19.15.27.8(G) NMAC, an operator who vents or flares for any reason and that lasts more than 8 hours cumulatively during any 24-hour period must report that event on Form C-129." Combustion of storage tank vapors by this enclosed combustion device is used routinely at this facility pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.

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

On May 17, 2021, NMOCD issued a notice entitled, "Frequently Asked Questions Regarding the Natural Gas Waste Rules," and states that "... pursuant to 19.15.27.8(G) NMAC, an operator who vents or flares for any reason and that lasts more than 8 hours cumulatively during any 24-hour period must report that event on Form C-129." Combustion of storage tank vapors by this enclosed combustion device is used routinely at this facility pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.

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

On May 17, 2021, NMOCD issued a notice entitled, "Frequently Asked Questions Regarding the Natural Gas Waste Rules," and states that "... pursuant to 19.15.27.8(G) NMAC, an operator who vents or flares for any reason and that lasts more than 8 hours cumulatively during any 24-hour period must report that event on Form C-129." Combustion of storage tank vapors by this enclosed combustion device is used routinely at this facility pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.

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District II

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District III

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District IV

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 42065

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 42065
	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	[30-025-45182] LOST TANK 30 19 FEDERAL COM #031H
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 additional 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	Yes
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	VCU Flaring > No wells were involved with this flaring event as this event is due to routine combustion of storage tank vapors by an enclosed combustion device is used routinely at this facility pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	15
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	10
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.

Date(s) and Time(s)	
Date venting and/or flaring was discovered or commenced	07/30/2021
Time venting and/or flaring was discovered or commenced	12:00 AM
Time venting and/or flaring was terminated	11:59 PM
Cumulative hours during this event	24

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: 142 Mcf Recovered: 0 Mcf Lost: 142 Mcf]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	VCU Meter tracking combusted gas
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	No
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	See Justification Form >On May 17, 2021, NMOCD issued a notice entitled, "Frequently Asked Questions Regarding the Natural Gas Waste Rules," and states that "... pursuant to 19.15.27.8(G) NMAC, an operator who vents or flares for any reason and that lasts more than 8 hours cumulatively during any 24-hour period must report that event on Form C-129." Combustion of storage tank vapors by this enclosed combustion device is used routinely at this facility pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.
Steps taken to limit the duration and magnitude of venting and/or flaring	See Justification Form >On May 17, 2021, NMOCD issued a notice entitled, "Frequently Asked Questions Regarding the Natural Gas Waste Rules," and states that "... pursuant to 19.15.27.8(G) NMAC, an operator who vents or flares for any reason and that lasts more than 8 hours cumulatively during any 24-hour period must report that event on Form C-129." Combustion of storage tank vapors by this enclosed combustion device is used routinely at this facility pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	See Justification Form >On May 17, 2021, NMOCD issued a notice entitled, "Frequently Asked Questions Regarding the Natural Gas Waste Rules," and states that "... pursuant to 19.15.27.8(G) NMAC, an operator who vents or flares for any reason and that lasts more than 8 hours cumulatively during any 24-hour period must report that event on Form C-129." Combustion of storage tank vapors by this enclosed combustion device is used routinely at this facility pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.

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CONDITIONS

Created By	Condition	Condition Date
marialuna	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