

Atchafalaya Measurement Inc
416 East Main Street, Artesia NM 88210 575-746-3481

Sample Information

	Sample Information
Sample Name	OXY__Misty 4__GC2-21919-06
Station Number	14651T
Lease Name	Misty 4
Analysis For	OXY USA
Producer	OXY USA
Field Name	Misty
County/State	Eddy,NM
Frequency/Spot Sample	Quarterly
Sampling Method	Fill Empty
Sample Deg F	82.8
Atmos Deg F	65
Flow Rate	453.9763
Line PSIG	87.3
Date Sampled/Time Sampled	2-14-19
Cylinder Number	N/A
Cylinder Clean Date	N/A
Sampled By	Victor Urias
Analysis By	Pat Silvas
Verified/Calibrated Date	2-18-19
Report Date	2019-02-19 11:16:31

Component Results

Component Name	Ret. Time	Peak Area	Norm%	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	22.880	32298.8	2.4037	0.000
H2S	0.000	0.0	0.0000	0.000
Methane	23.660	777719.9	76.6046	0.000
Carbon Dioxide	27.620	2827.4	0.1802	0.000
Ethane	37.080	204401.8	12.1870	3.252
Propane	77.780	114768.3	5.1711	1.422
i-Butane	29.780	50489.1	0.6204	0.203
n-Butane	32.080	119578.0	1.4582	0.459
i-Pentane	39.100	33139.5	0.3513	0.128
n-Pentane	41.900	36104.3	0.3725	0.135
C6's	50.750	29339.0	0.2663	0.109
C7's	67.000	31538.0	0.2756	0.127
C8's	84.000	10015.0	0.0933	0.048
C9's	102.000	3852.0	0.0129	0.007
C10 Plus	146.000	771.0	0.0029	0.002
Total:			100.0000	5.891

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	100.6904	
Pressure Base (psia)	14.650	
Temperature Base	60.00	
Gross Heating Value (BTU / Ideal cu.ft.)	1247.1	1225.3
Gross Heating Value (BTU / Real cu.ft.)	1251.6	1230.2
Relative Density (G), Ideal	0.7372	0.7351
Relative Density (G), Real	0.7395	0.7378
Compressibility (Z) Factor	0.9964	0.9960

UPSET EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Misty Ivore CTB**Date:** 12/02/2021**Duration of event:** 10 Hours**MCF Flared:** 281.22**Start Time:** 12:00 AM**End Time:** 10:00 AM**Cause:** Downstream Activity > Enterprise > Shugart Station > Compression Equipment Issues**Method of Flared Gas Measurement:** Gas Flare Meter**Well API Associated with Facility:** 30-015-41413 Misty 35 Federal Com 4H

Comments: This upset event was not caused by any wells associated with the facility. This event began on 12/01/2021 and ended on 12/02/2021. This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable issue 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.

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 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 pipeline by a third-party pipeline 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 was a sudden and reasonably unforeseeable incident outside of OXY's control, but that impacted OXY's upstream facility. The problem occurred downstream of OXY's custody transfer point and out of OXY's control. Third-party pipeline operator, Enterprise, who owns and operates the gas pipeline, did not provide advance notice of the disruption to their gas pipeline due to their associating downstream facility, Shugart Compressor Station, was having compression equipment issues. As a result of Enterprise having compression equipment problems as well as high line pressure spikes, they were unable to handle the gas loads sent to them which prompted Enterprise to restrict their pipeline to Oxy. These problems occurred downstream of OXY's custody transfer point and out of OXY's control. Enterprise personnel did communicate to Oxy production techs that they were going resolve their issues within a few hours, but the line pressure would not decrease, and they were having constant pressure spikes. Until Enterprise was able to handle the volume of gas sent to them, the spikes in line pressure forced Oxy's upstream facility to route its stranded gas to a flare, as it was not able to push all its gas into Enterprise's gas pipeline due to the restrictions placed. Enterprise did not provide advance notice of impending downstream activity impacting Oxy's upstream facility.

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

It is Oxy's policy to route its stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, to minimize emissions as much as possible as part of the overall steps take to limit duration and magnitude of flaring. Prior to the spike in Enterprise's pipeline pressure, which impacted Oxy's ability to send its gas to them, Oxy's compression equipment was running and operating at maximized optimization. Flaring did not occur until Enterprise's downstream compressor station facility was having equipment issues and was unable to handle the volume of gas loads sent to them from Oxy's upstream facility. This incident was completely out of Oxy's control to prevent from happening. OXY made every effort to control and minimize emissions as much as possible during this event.

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

Oxy cannot take any 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 and may trigger a spike in their gas line pressure, which in turn, is out of Oxy's control to avoid or prevent from happening yet directly impacts Oxy's ability to send gas to them and causes Oxy's upstream facility to flare. When Enterprise's 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 Oxy's ability to send gas, which then prompts Oxy to route its stranded gas 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 keep continually communicate with Enterprise personnel during these types of situations, when possible. Oxy continually strives to maintain and operate its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events.

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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

Action 67618

DEFINITIONS

Operator: OXY USA WTP LIMITED PARTNERSHIP P.O. Box 4294 Houston, TX 772104294	OGRID: 192463
	Action Number: 67618
	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 67618

QUESTIONS

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	Action Number: 67618
	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	[fAPP2126456258] MISTY-IVORE 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	Yes
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 > Downstream Activity > Enterprise > Shugart Station > 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	77
Nitrogen (N2) percentage, if greater than one percent	2
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

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QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/02/2021
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	10:00 AM
Cumulative hours during this event	10

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: 281 Mcf Recovered: 0 Mcf Lost: 281 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	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, this was a sudden and reasonably unforeseeable incident outside of OXY's control, but that impacted OXY's upstream facility. The problem occurred downstream of OXY's custody transfer point and out of OXY's control. Third-party pipeline operator, Enterprise, who owns and operates the gas pipeline, did not provide advance notice of the disruption to their gas pipeline due to their associating downstream facility, Shugart Compressor Station, was having compression equipment issues. As a result of Enterprise having compression equipment problems as well as high line pressure spikes, they were unable to handle the gas loads sent to them which prompted Enterprise to restrict their pipeline to Oxy. These problems occurred downstream of OXY's custody transfer point and out of OXY's control. Enterprise personnel did communicate to Oxy production techs that they were going resolve their issues within a few hours, but the line pressure would not decrease, and they were having constant pressure spikes. Until Enterprise was able to handle the volume of gas sent to them, the spikes in line pressure forced Oxy's upstream facility to route its stranded gas to a flare, as it was not able to push all its gas into Enterprise's gas pipeline due to the restrictions placed. Enterprise did not provide advance notice of impending downstream activity impacting Oxy's upstream facility.
Steps taken to limit the duration and magnitude of vent or flare	It is Oxy's policy to route its stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, to minimize emissions as much as possible as part of the overall steps take to limit duration and magnitude of flaring. Prior to the spike in Enterprise's pipeline pressure, which impacted Oxy's ability to send its gas to them, Oxy's compression equipment was running and operating at maximized optimization. Flaring did not occur until Enterprise's downstream compressor station facility was having equipment issues and was unable to handle the volume of gas loads sent to them from Oxy's upstream facility. This incident was completely out of Oxy's control to prevent from happening. OXY made every effort to control and minimize emissions as much as possible during this event.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy cannot take any 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 and may trigger a spike in their gas line pressure, which in turn, is out of Oxy's control to avoid or prevent from happening yet directly impacts Oxy's ability to send gas to them and causes Oxy's upstream facility to flare. When Enterprise's 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 Oxy's ability to send gas, which then prompts Oxy to route its stranded gas 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 keep continually communicate with Enterprise personnel during these types of situations, when possible. Oxy continually strives to maintain and operate its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events.

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ACKNOWLEDGMENTS

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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

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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.	12/16/2021