

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

Sample Information

	Sample Information
Sample Name	OXY_Rum Runner 2 Federal Com 1__6030GC4-12420-20
Station Number	15107W
Lease Name	Rum Runner 2 Federal Com 1
Analysis For	OXY USA
Producer	OXY USA
Field Name	Mills Ranch
County/State	Lea,NM
Frequency/Spot Sample	Semi-Annual
Sampling Method	FIII Empty
Sample Deg F	59
Atmos Deg F	45
Flow Rate	33.26
Line PSIG	63
Date Sampled/Time Sampled	1-20-20
Cylinder Number	N/A
Cylinder Clean Date	N/A
Sampled By	Cameron Rivera
Analysis By	Pat Silvas
Verified/Calibrated Date	1-20-20
Report Date	2020-01-24 13:48:05

Component Results

Component Name	Ret. Time	Peak Area	Norm%	GPM (Dry) (Gal. / 1000 cu.ft.)	
Nitrogen	23.320	74977.6	5.7123	0.000	
H2S	0.000	0.0	0.0000	0.000	
Methane	24.120	706244.7	68.0670	0.000	
Carbon Dioxide	27.960	180206.8	11.2820	0.000	
Ethane	37.500	136667.0	7.9019	2.109	
Propane	77.620	89952.9	4.0304	1.108	
i-Butane	29.840	43642.9	0.5471	0.179	
n-Butane	32.140	95583.2	1.1868	0.373	
i-Pentane	39.120	30606.7	0.3406	0.124	
n-Pentane	41.920	31971.6	0.3433	0.124	
C6's	50.750	28916.0	0.2805	0.115	
C7's	67.000	22994.0	0.1889	0.087	
C8's	84.000	8569.0	0.0827	0.042	
C9's	102.000	3741.0	0.0163	0.009	
C10 Plus	146.000	2491.0	0.0202	0.012	
Total:			100.0000	4.283	

Results Summary

Result	Dry	Sat. (Base)	
Total Raw Mole% (Dry)	97.9917		
Pressure Base (psia)	14.650		
Temperature Base	60.00		
Gross Heating Value (BTU / Ideal cu.ft.)	1041.0	1022.7	
Gross Heating Value (BTU / Real cu.ft.)	1044.6	1026.7	
Net Heating Value (BTU / Ideal cu.ft.)	944.0	927.5	
Net Heating Value (BTU / Real cu.ft.)	947.3	931.1	
Relative Density (G), Ideal	0.8188	0.8153	
Relative Density (G), Real	0.8213	0.8182	
Compressibility (Z) Factor	0.9965	0.9961	

UPSET FLARE EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Rum Runner 2 Fed Com 1 Battery**Flare Date:** 01/11/2022**Duration of event:** 2 Hours 30 Minutes**MCF Flared:** 156**Start Time:** 08:20 AM**End Time:** 10:50 AM**Cause:** Downstream Activity > DCP > DCP Linam Ranch > Facility Issues**Method of Flared Gas Measurement:** Gas Flare Meter**Comments:** This upset event was not caused by any wells associated with the facility.

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, OXY was not provided with advance notice from DCP or DCP Linam Ranch that an unexpected gas restriction or constraint of their gas service pipeline would occur for this specific time. DCP Linam Ranch gas plant was experiencing issues within their gas system, which caused them to reduce their gas intake volume, which was not part of their planned maintenance scheduled for January 12, 2022. As a result of the reduction in the gas intake volume from the DCP Linam Ranch gas plant, DCP Bootleg Booster Station also had facility issues. DCP compressed as much gas as possible until their own facility compressors shut down on high discharge, which in turn, caused DCP to totally shut-in their gas pipeline to OXY. This situation was out of OXY's control but OXY made every effort to control and minimize emissions as much as possible while DCP & DCP Linam Ranch was down and restricted/constrained their gas service pipeline. All OXY compression equipment was running at maximized capacity until no longer able to do so because of a total shut-in from DCP & DCP Linam Ranch. OXY routed its stranded gas to flare until DCP/Linam Ranch was able to resume normal working operations.

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, 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 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, the unexpected gas restriction or constraint of third-party pipeline operator DCP's gas service pipeline, caused by issues at their DCP Linam Ranch and DCP Bootleg Station greatly impacted the gas flow from Oxy's upstream facility to their gas service pipeline and causing an immediate spike in high line pressure in their pipeline, which triggered a flaring event at Oxy's upstream facility.

Until DCP and their associating downstream facilities were able to take the volume of gas sent to them, the spike in line pressure forced Oxy's upstream facility to route its stranded gas to a flare, as it was not able to push its gas into DCP's gas pipeline. All OXY compression equipment was running at maximized capacity until no longer able to do so because of a total shut-in from DCP and its associating facilities. OXY routed its stranded gas to flare until DCP was able to resume normal working operations but also routed some of its gas to another gas purchaser, to minimize excess emissions. Additionally, Oxy production techs shut in multiple wells to minimize gas throughput to match and reduce flaring volumes during this third-party pipeline operator' restriction/constraint of their gas service pipeline.

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 a DCP gas service system 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. DCP's downstream facility issues will re-occur from time to time and may trigger a spike in their gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When DCP's downstream facility and/or its associating downstream facilities has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, DCP then restricts Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into the DCP gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. The limited reactive actions that Oxy can do in this circumstance is to shut in multiple wells to minimize gas throughput to match and reduce flaring volumes during this third-party pipeline operator' restriction/constraint of their gas service pipeline.

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

DEFINITIONS

Action 75311

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 75311
	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: <ul style="list-style-type: none">• 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 75311

QUESTIONS

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	Action Number: 75311
	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	[fAPP2127031539] RUM RUN/SPEAK EASY CDP

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 > Downstream Activity > DCP > DCP Linam Ranch > Facility 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	68
Nitrogen (N2) percentage, if greater than one percent	6
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	11
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 75311

QUESTIONS (continued)

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

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/11/2022
Time vent or flare was discovered or commenced	08:20 AM
Time vent or flare was terminated	10:50 AM
Cumulative hours during this event	2

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: 156 Mcf Recovered: 0 Mcf Lost: 156 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	[228110] DCP MIDSTREAM, L.P.
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 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, OXY was not provided with advance notice from DCP or DCP Linam Ranch that an unexpected gas restriction or constraint of their gas service pipeline would occur for this specific time. DCP Linam Ranch gas plant was experiencing issues within their gas system, which caused them to reduce their gas intake volume, which was not part of their planned maintenance scheduled for January 12, 2022. As a result of the reduction in the gas intake volume from the DCP Linam Ranch gas plant, DCP Bootleg Booster Station also had facility issues. DCP compressed as much gas as possible until their own facility compressors shut down on high discharge, which in turn, caused DCP to totally shut-in their gas pipeline to OXY. This situation was out of OXY's control but OXY made every effort to control and minimize emissions as much as possible while DCP & DCP Linam Ranch was down and shut in. All OXY compression equipment was running at maximized capacity until no longer able to do so because of a total shut-in from DCP & DCP Linam Ranch. OXY routed its stranded gas to flare until DCP/Linam Ranch was able to resume normal working operations.
Steps taken to limit the duration and magnitude of vent or flare	It is OXY's policy to route its 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 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, the unexpected gas restriction or constraint of third-party pipeline operator DCP's gas service pipeline, caused by issues at their DCP Linam Ranch and DCP Bootleg Station greatly impacted the gas flow from Oxy's upstream facility to their gas service pipeline and causing an immediate spike in high line pressure in their pipeline, which triggered a flaring event at Oxy's upstream facility. Until DCP and their associating downstream facilities were able to take the volume of gas sent to them, the spike in line pressure forced Oxy's upstream facility to route its stranded gas to a flare, as it was not able to push its gas into DCP's gas pipeline. All OXY compression equipment was running at maximized capacity until no longer able to do so because of a total shut-in from DCP and its associating facilities. OXY routed its stranded gas to flare until DCP was able to resume normal working operations but also routed some of its gas to another gas purchaser, to minimize excess emissions. Additionally, Oxy production techs shut in multiple wells to minimize gas throughput to match and reduce flaring volumes.
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 a DCP gas service system 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. DCP's downstream facility issues will re-occur from time to time and may trigger a spike in their gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When DCP's downstream facility and/or its associating downstream facilities has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, DCP then restricts Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into the DCP gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. The limited reactive actions that Oxy can do in this circumstance is to shut in multiple wells to minimize gas throughput to match and reduce flaring volumes during this third-party pipeline operator' restriction/constraint of their gas service pipeline.

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ACKNOWLEDGMENTS

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	Action Number: 75311
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.	1/26/2022