

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

Sample Information

	Sample Information
Sample Name	OXY__Cedar Canyon CDP Check 4__GC1-102119-23
Station Number	14970C
Lease Name	Cedar Canyon CDP Check 4
Analysis For	OXY USA
Producer	OXY USA
Field Name	Cedar Canyon
County/State	Eddy,NM
Frequency/Spot Sample	Monthly
Sampling Method	Fill EMpty
Sample Deg F	107
Atmos Deg F	68
Flow Rate	6084.144
Line PSIG	828
Date Sampled/Time Sampled	10-15-19
Cylinder Number	N/A
Cylinder Clean Date	N/A
Sampled By	Cameron Rivera
Analysis By	Pat Silvas
Verified/Calibrated Date	10-21-19
Report Date	2019-10-21 13:24:07

Component Results

Component Name	Ret. Time	Peak Area	Norm%	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	22.920	12008.6	2.3046	0.000
H2S	46.000	0.0	0.0000	0.000
Methane	23.720	314345.6	77.4265	0.000
Carbon Dioxide	28.000	6671.3	1.0746	0.000
Ethane	37.440	78209.3	11.5237	3.075
Propane	78.980	47907.2	5.2440	1.441
i-Butane	29.940	42089.3	0.6030	0.197
n-Butane	32.320	96517.2	1.3238	0.416
i-Pentane	39.000	0.0	0.0000	0.000
n-Pentane	43.200	21055.0	0.2394	0.087
C6's	52.000	5380.0	0.0549	0.023
C7's	67.000	8272.0	0.1264	0.058
C8's	84.000	4555.0	0.0594	0.030
C9's	102.000	1495.0	0.0151	0.008
C10 Plus	146.000	1187.0	0.0046	0.003
Total:			100.0000	5.338

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	102.5235	
Pressure Base (psia)	14.650	
Temperature Base	60.00	
Gross Heating Value (BTU / Ideal cu.ft.)	1201.2	1180.2
Gross Heating Value (BTU / Real cu.ft.)	1205.2	1184.6
Relative Density (G), Ideal	0.7208	0.7191
Relative Density (G), Real	0.7230	0.7215
Compressibility (Z) Factor	0.9966	0.9962

UPSET EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Cedar Canyon CDP CTB**Date:** 08/18/2021**Duration of event:** 1 Hours 30 minutes**MCF Flared:** 243**Start Time:** 03:30 PM**End Time:** 05:00 PM**Cause:** Downstream Activity > Enterprise > Compression Equipment Issues**Method of Flared Gas Measurement:** Gas Flare Meter**Well API Associated with Facility:** 30-015-41024 Cedar Canyon 16 State 002H

Comments: This upset event was not caused by any wells associated with the facility. 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. It is Oxy's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible.

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 facility's compression equipment issues. Upon noticing flaring occurring and receiving high line pressure alarms notifying them of an issue with the sales gas system, Oxy production techs quickly inspected their compression equipment to determine cause and finding none, then contacted Enterprise regarding their downstream activity which was affecting Oxy's upstream facility. Enterprise personnel informed OXY that the cause of the disruption/restriction was due to their downstream compressor station facility having issues with their compression equipment and therefore the line pressure spiked and/or increased unexpectedly. OXY was in communication with Enterprise throughout the outage and continually monitored the line pressure as well. OXY routed all stranded gas to a flare in order to minimize emissions as much as possible. No advance notice of downstream activity was provided by Enterprise prior to the flaring event occurred.

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

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. It is Oxy's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible.

It is Oxy's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The steps taken to limit duration and magnitude of flaring was that as soon as OXY was informed by Enterprise personnel that their downstream compressor station facility was having issues with their compression equipment, Oxy production techs immediately initiated emergency offloading alternative reactive plans, by contacting their neighboring OXY Section 8 facility to start up all compression equipment to alleviate flaring, while also taking steps to begin injecting 7300 mcf/d downhole into two gas storage wells as an additional measure to minimize flaring. Prior to the spike in Enterprise's pipeline pressure, which impacted Oxy's ability to send all 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 all of 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. 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. The only actions that Oxy can take and handle that is within its control, is to continually communicate with third party pipeline operating personnel during these circumstances.

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Phone:(505) 334-6178 Fax:(505) 334-6170**District IV**1220 S. St Francis Dr., Santa Fe, NM 87505
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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

QUESTIONS

Action 46112

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 46112
	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	[30-015-41024] CEDAR CANYON 16 STATE #002H
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	No
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	Emergency Flare > Downstream Activity > Enterprise > 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	1
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	08/18/2021
Time venting and/or flaring was discovered or commenced	03:30 PM
Time venting and/or flaring was terminated	05:00 PM
Cumulative hours during this event	2

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
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Natural Gas Flared (Mcf) Details	Cause: Other Other (Specify) Natural Gas Flared Released: 243 Mcf Recovered: 0 Mcf Lost: 243 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 or is this venting and/or flaring a result of downstream activity	Yes
Date notified of downstream activity requiring this venting and/or flaring	08/18/2021
Time notified of downstream activity requiring this venting and/or flaring	03:50 PM

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 > 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. It is Oxy's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible.
Steps taken to limit the duration and magnitude of venting and/or flaring	See Justification Form > It is Oxy's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The steps taken to limit duration and magnitude of flaring was that as soon as OXY was informed by Enterprise personnel that their downstream compressor station facility was having issues with their compression equipment, Oxy production techs immediately initiated emergency offloading alternative reactive plans, by contacting their neighboring OXY Section 8 facility to start up all compression equipment to alleviate flaring, while also taking steps to begin injecting 7300 mcfd downhole into two gas storage wells as an additional measure to minimize flaring. Prior to the spike in Enterprise's pipeline pressure, which impacted Oxy's ability to send all 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 venting and/or flaring	See Justification Form > 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 all of 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. 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. The only actions that Oxy can take and handle that is within its control, is to continually communicate with third party pipeline operating personnel during these circumstances.

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CONDITIONS

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

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.	9/2/2021