

**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)<br>(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 FLARING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** Cedar Canyon CDP CTB**Date:** 06/07/2021**Duration of event:** 4 Hours**MCF Flared:** 1494**Start Time:** 09:30 AM**End Time:** 01:30 PM**Cause:** Downstream Activity Issue > Enterprise Shutdown**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. 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.

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**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 gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible.

In this case, this was a sudden and unexpected flaring event due to third party pipeline operator, Enterprise, whose downstream mid-stream facility was shut down due to an automation issue with their facility equipment. The problem occurred downstream of Oxy's custody transfer point and is out of Oxy's control to prevent and/or avoid from happening. The shutdown of Enterprise's mid-stream downstream facility greatly impacted the gas flow from Oxy's upstream facility to their gas pipeline and causing an immediate spike in high line pressure in their pipeline, which triggered a flaring event at Oxy's upstream facility. This event was out of Oxy's control to foresee, avoid or prevent from happening, yet Oxy made every effort to minimize emissions as much as possible.

**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 gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible.

In this case, it is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the steps to take to limit duration and magnitude of flaring. Upon flaring being noticed, an Oxy production tech quickly contacted Enterprise personnel about the unforeseeable pipeline restriction and/or interruption and when service would be restored. Oxy was informed that the cause of the disruption was due to an automation issue with their facility equipment and gas service would be restored shortly.

**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 interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator, as this issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening again. Enterprise's downstream facility issues will re-occur from time to time and which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise's downstream 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 initiates Oxy to route all of its stranded gas not pushed into the Enterprise gas pipeline, 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 circumstances.

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**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 51363

**QUESTIONS**

|                                                                    |                                                        |
|--------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696                                        |
|                                                                    | Action Number:<br>51363                                |
|                                                                    | Action Type:<br>[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 venting and/or flaring event                                                                                                                                                                                                                           | Yes, major 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 Issue > Enterprise Shutdown |

**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 | 06/07/2021 |
| Time venting and/or flaring was discovered or commenced | 09:30 AM   |
| Time venting and/or flaring was terminated              | 01:30 PM   |
| Cumulative hours during this event                      | 4          |

**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: 1,494 Mcf   Recovered: 0 Mcf   Lost: 1,494 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                                    |
| Was notification of downstream activity received by you or your operator   | No                                     |
| Downstream OGRID that should have notified you or your operator            | [713731] Enterprise Crude Pipeline LLC |
| 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 > 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 gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible.                                                                 |
| Steps taken to limit the duration and magnitude of venting and/or flaring                                                      | See Justification Form > In this case, it is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the steps to take to limit duration and magnitude of flaring. Upon flaring being noticed, an Oxy production tech quickly contacted Enterprise personnel about the unforeseeable pipeline restriction and/or interruption and when service would be restored. Oxy was informed that the cause of the disruption was due to an automation issue with their facility equipment and gas service would be restored shortly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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 interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator, as this issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening again. Enterprise's downstream facility issues will re-occur from time to time and which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise's downstream 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 initiates Oxy to route all of its stranded gas not pushed into the Enterprise gas pipeline, 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 circumstances. |

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CONDITIONS  
  
Action 51363

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|                                                                    |                                                        |
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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. | 9/23/2021      |