



CapturePoint LLC  
 North Burbank Unit – Subpart RR Annual Report  
 Reporting Period: 1/1/2023 – 12/31/23

**Annual Report: 40 C.F.R. 98.446 (Subpart RR)**

Company Name: CapturePoint LLC  
 Company Address: 1101 Central Expressway South, Suite 150, Allen, Texas 75013  
 GHGRP: 553337  
 Facility Name: North Burbank Unit  
 Facility Address: 373 Phillips Road, Shidler, Oklahoma 74652  
 Reporting period: January 1, 2023 – December 31, 2023  
 Date of Submittal: March 28, 2024, **Revised July 11, 2024**

**Executive Summary:**

North Burbank Unit monitoring efforts by CapturePoint LLC (previously Perdure Petroleum, LLC) began January 1, 2020 pursuant to the Monitoring, Reporting and Verification (MRV) plan. The final MRV plan was approved by the EPA effective December 21, 2020. The MRV plan identification number is 1010975-1.

**Summary of Monitoring Activities:**

CapturePoint LLC’s program for monitoring potential leak pathways in the North Burbank Unit including detection methods and locations is summarized below.

| Leakage Pathway                       | Detection Method   | Monitoring Location   | Period of Operation |
|---------------------------------------|--|---|---------------------|
| Wellbores                             | SCADA rate and pressure surveillance.<br>Visual inspections.<br>MIT.<br>Personal H <sub>2</sub> S Monitors.                          | Wellhead to formation   | Continuous          |
| Faults and fractures                  | SCADA surveillance of injection pressures below parting pressure.  | Wellhead  | Continuous          |
| Natural and induced seismic activity  | SCADA surveillance of injection pressures below parting pressure.  | Wellhead<br>USGS monitoring internet site                         | Continuous          |
| Prior operations                      | Visual inspections.<br>Personal H <sub>2</sub> S Monitors.   | Abandoned well sites  | On occurrence       |
| Pipelines and surface equipment       | SCADA surveillance.<br>Visual inspection.<br>Fixed H <sub>2</sub> S monitors.<br>Personnel H <sub>2</sub> S monitors.<br>Vent meter. | Production wellhead thru recycle facility to injection wellhead   | Continuous          |
| Lateral migration through Formation   | Production well performance.   | Producing wells located down structure from CO <sub>2</sub> flood | Weekly              |
| Drilling through CO <sub>2</sub> area | EPA UIC regulating new Class II wells.<br>Visual Inspection.   | AMA (North Burbank Unit Area)                                     | On occurrence       |
| Diffuse leak through seal             | Visual inspection.   | AMA (North Burbank Unit Area)                                     | Weekly              |



- 1) A narrative history of the monitoring efforts conducted over the previous calendar year, including a listing of all monitoring equipment that was operated, its period of operation, and any relevant tests or surveys that were conducted.**

CapturePoint LLC collected flow rates, pressure, and gas composition data from the North Burbank Unit as part of ongoing operations. CO<sub>2</sub> injection wells were monitored through continual, automated flow and pressure measurements in the injection zone, monitored annular pressure in wellheads, and daily well inspection and maintenance. A commercial custody transfer meter was used to measure CO<sub>2</sub> volume received. CO<sub>2</sub> recycled volumes were measured at each compressor utilizing V Cone meters. These meters are monitored continuously, and data collection is automated through the local SCADA system. Fluid compositions were measured to determine mass flow rates.

CapturePoint LLC used 40 C.F.R. Part 98 Subpart W and engineering estimates to estimate surface leakage, emissions from equipment leaks, and vented emissions from surface equipment in the North Burbank Unit.

- 2) A description of changes to the monitoring program that you concluded were not material changes warranting submission of a revised MRV plan under 98.448(d).**

CapturePoint LLC has reviewed the MRV plan and concluded there are no non-material changes to the EPA approved MRV Plan for the 2023 reporting period.

- 3) A narrative history of any monitoring anomalies that were detected in the previous calendar year and how they were investigated and resolved.**

CapturePoint LLC has determined that no anomalies were detected in the previous calendar year.

- 4) A description of any surface leakages of CO<sub>2</sub>, including a discussion of all methodologies and technologies involved in detecting and quantifying the surface leakages and any assumptions and uncertainties involved in calculating the amount of CO<sub>2</sub> emitted.**

Field personnel routinely visited the surface facilities and conducted visual inspections during the reporting year. In addition, CapturePoint LLC used personal H<sub>2</sub>S monitors to detect the potential small leaks that would trigger an immediate response. During the reporting year routine inspection of active and abandoned well locations discovered five minor surface leaks via abandoned wellbores (well surfacings). After regulatory approval was granted workover crews were immediately dispatched to re-plug these wells.



The leaked mass of CO<sub>2</sub> from these well surfacings was estimated at 731.89 MT (rounded) by capturing and then metering the leak. The concentration of CO<sub>2</sub> in the gas was assumed to be the same as the produced CO<sub>2</sub> gas composition applied to total leak duration.

The leaked mass of CO<sub>2</sub> from flaring is 47,788.25 MT, (rounded) per our Subpart RR Report.  
***Volumes of CO<sub>2</sub> flared are determined by metering and/or SCADA monitoring.***

The total leaked mass of CO<sub>2</sub> from both well surfacing and flaring is 48,520.14 MT (rounded).

The mass of CO<sub>2</sub> emitted from injection system and production system surface equipment losses for 2023 is estimated at 280.5 MT (rounded). ***See the table Summary of Monitoring Activities above for technology and methods used to detect and determine CO<sub>2</sub> leakage. Uncertainties include determining the exact time leak started, lack of SCADA tracking of all injection/production pipelines. Quantification of leakage is based on volume differences compared to customary production and injection volumes.***

The total mass of CO<sub>2</sub> emitted from all leakage pathways is estimated at 48,800.19 MT (rounded).

Certification by Designated Representative:

*The information and statements in this report are true, complete, and accurate to the best of my knowledge.*

Designated Representative  
Carl Thunem, Director Health, Safety and Environmental