



EOG SPG Holdings, Inc.

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**40 CFR Part 98 Subpart RR – Geologic Sequestration of Carbon Dioxide
Annual Monitoring Report**

Reporting Period: January 1 – December 31, 2023

GHGRP ID: 583201
Facility Name: SPG CO2 Bowie Facility
Date of Submittal: 28-Mar-2024

40 CFR Part 98, Section 446, Paragraph (f)(12)

- (i) **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.**

EOG SPG Holdings, Inc. (SPG) has been operating under Monitoring, Reporting, and Verification (MRV) plan number 1014507-1 for its SPG CO₂ Bowie Facility since 17-Jul-2023. While the final approved plan has an effective date of 13-Feb-2024, the monitoring strategy described in the plan has been in place since the start of continuous operations which is relevant to the 2023 reporting year. The 2023 monitoring activities to address the various potential leakage pathways included the following continuous measurements and periodic surveys:

- Continuous measurement of injection mass flow rate by the Coriolis meter (Meter ID FW46045INJ) located downstream of the injection compressor;
- Continuous measurement of the injected gas composition by the gas chromatograph located upstream of the injection compressor;
- Continuous monitoring of pressure and temperature at the injection tubing head, tubing-casing annulus;
- Routine visual inspections of the injection wellsite surface equipment by field personnel equipped with personal H₂S monitors;
- Annual mechanical integrity testing (MIT) of the tubing-casing annulus as required by the injection permit;
- Continuous subsurface monitoring of downhole pressure/temperature gauge arrays and Distributed Temperature Sensing (DTS) fiber in both the Hinkle Trust #1 injection well and the Billy Henderson #5 monitoring well;
- Time-lapse pulsed neutron saturation logging surveys conducted in both the Hinkle Trust #1 injection well and the Billy Henderson #5 monitoring well;
- Baseline corrosion (i.e., metal loss) survey performed in the Hinkle Trust #1 injection.

Installed monitoring devices are designed for their intended applications and the flow meter is calibrated in accordance with the American Society of Mechanical Engineers (ASME) MFC 11M-2006 guidelines which are approved by the National Institute of Standards and Technology (NIST). Continuous data from these devices are streamed in real-time to the continuously-monitored control rooms at each of the four gas amine treatment facilities from which the injected CO₂ is gathered. The data are also archived in a central database and made available in real-time to technical staff via web-based and mobile interfaces for further surveillance and analysis.

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

No material changes were made to the monitoring program that warrant the submission of a revised MRV plan.

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

No monitoring anomalies were detected in reporting year 2023.

- (iv) A description of any surface leakages of CO₂, 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 CO₂ emitted.**

No surface leakages of CO₂ were detected in reporting year 2023.