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The Williams Echo Springs CarbonSAFE Storage Complex Feasibility Study



Project Overview

The Williams Echo Springs CarbonSAFE Storage Complex Feasibility Study will study the development of a saline CO₂ storage hub for current and future industry in the Wamsutter area of south-central Wyoming. The objectives are to a) prove the ability to sequester CO₂ safely and securely in the region’s geological formations by drilling a stratigraphic test well and high-quality model and b) develop all foundational documents for a Class VI UIC permit to enable further development of the site.

Project Team

The team consists of Williams Field Services Group, LLC, which is an experienced midstream natural gas company with expansive operations in the Project region, in partnership with the University of Wyoming School of Energy Resources, which has unique expertise in Wyoming’s UIC Class VI well permitting, storage site construction, and geologic characterization of stacked-storage complexes..

Project Impact

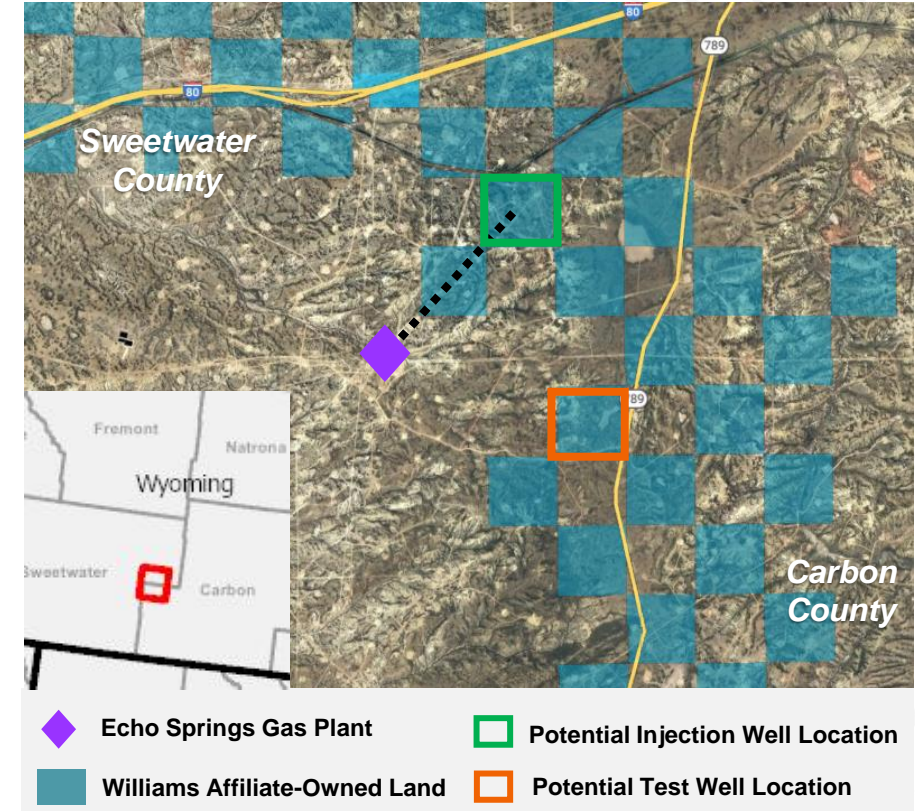
- Confirmation that reservoirs at Echo Springs can safely, securely, and economically store CO₂
- Ensuring greater than 99% permanence and improving storage efficiency and containment
- Development of a commercial-scale monitoring, reporting and verification approach for Echo Springs

Community Benefit

This project will not only create jobs but will support economic development in the region. The project will work to extend the economic viability of the Echo Springs gas plant and attract other industry development to the region to take advantage of being in proximity to CO₂ storage. New industry may be incentivized through the enablement of hydrogen generation and direct air capture facilities in the region.

Key Takeaways

This project represents the joint efforts of a robust research organization and a commercial development team to leverage an existing CO₂ source to be a “first-mover” in the CO₂ sequestration industry. The goal is to deliver emission reductions in real terms within the core midstream pipeline industry and bring carbon capture and sequestration to new, previously unstudied that will advance the CCS industry in the State of Wyoming.



DOE CarbonSAFE Funding	\$8,998,258
State & Private Funding	\$300,000
Requested EMF Funding	\$1,950,000
Total Project Cost	\$11,248,258