



CASE STUDY

A Pioneering Carbon Capture, Utilization, and Storage Project in Washington County, Colorado.

INTRODUCTION

A leading carbon sequestration company selected IPT Well Solutions to support their Carbon Capture, Utilization, and Storage (CCUS) project in Washington County, Colorado. This collaboration aimed to drill one of the state's inaugural Carbon Storage wells, marking a significant leap towards a more sustainable future.



PROJECT OVERVIEW

Under this initiative, the proposed well will reach a depth of 5,150 feet, allowing core and wireline information to be obtained for Class VI permit. The Lyons and Lakota formations are the designated CO₂ injection zones due to their favorable geologic characteristics, including suitable levels of porosity and permeability. These attributes are essential for the efficient injection and storage of captured carbon dioxide (CO₂) within these formations.

The operation commences with an initial Class II stratigraphic test well, after extensive reservoir modeling was completed, and is slated to spud in mid-2023.

Designed to Class VI standards, the well will undergo various tests, including coring and wireline evaluation. The well was designed as a stratigraphic and injection well, so the well was initially permitted Class II which can be converted in the future into a Class VI injection or monitoring well, as the project advances.

The company's aspiration to capture and store carbon dioxide in deep underground geological formations underscores the vital role CCUS technology plays in mitigating greenhouse gas emissions.

PARTNERSHIP IMPACT

IPT Well Solutions brings to the table its rich experience in drilling complex wells and expertise in carbon capture and storage. This, coupled with the client's commitment to sustainable practices, forms a strong foundation for the successful execution of the CCUS project.

ENSURING SAFETY AND EFFICIENCY

IPT Well Solutions prioritizes safety, efficiency, and effectiveness in their operations. This aligns with their shared commitment to sustainability, making their partnership a model example for others in the industry.

As the world strives to find potent storage solutions for captured carbon emissions, this alliance manifests a promising commitment towards realizing this global vision.

CONCLUSION

This pioneering initiative supported by IPT Well Solutions signifies an important development in the energy industry's ongoing efforts to combat climate change. The successful implementation of the project will contribute to the long-term goal of reducing greenhouse gas emissions and promote the adoption of CCUS technology globally.

Drawing on IPT's three decades of reservoir expertise and current proficiency in carbon capture well operations, the project is poised to drive tangible progress towards a sustainable future.

ABOUT IPT WELL SOLUTIONS

IPT Well Solutions is a leading independent consulting firm specializing in well engineering, wellsite operations, and environmental sustainability.

Boasting over three decades of experience in the oil and gas industry, IPT Well Solutions harnesses its expertise and robust vendor relationships to provide strategic advice and services that empower clients to make informed decisions and run safer, more productive wells.