Geomechanical Properties of Mesozoic Rift Basins: Applications for Geosequestration

Award Number: DE-FE0023334

Project Summary:
This project aimed to develop geomechanical characterization methodologies by combining laboratory rock core testing with downhole tools that determine the strength of rock formations. Data from these tests was planned to be used to model the behavior of caprocks encountered in the Newark Basin in New York. Specifically, the project objective was to study the potential effects that fluid injection would have on the in-situ stresses and faults in the basin and help to determine the ability of the target formation to accommodate the increase in pore pressure. The approach was expected to be applicable for evaluating geomechanical properties for similar basins, both onshore and offshore.

Presentations, Papers, and Publications