Report Title

*“Basin Analysis of the Mississippi Interior Salt Basin and Petroleum System Modeling
Of the Jurassic Smackover Formation, Eastern Gulf Coastal Plain”*

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Third Quarterly Progress Report for Year 4

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Project Objectives

Part 3 (Petroleum System Modeling of the Jurassic Smackover Formation) objectives are to provide an analysis of the Smackover petroleum system in Years 4 and 5 of the project and to transfer effectively the research results to producers through workshops and topical reports.

Work Accomplished (Year 4)

Task 1—Fluid Flow

Basin flow modeling has been initiated by using Platte River BasinView and BasinFlow software.

Task 2—Petroleum Traps

Work on the petroleum traps has focused on collecting data on the structural configuration and petroleum reservoir characteristics of the oil fields producing from Smackover carbonates in the basin. Structure contour maps for the Smackover fields have been completed and have been catalogued for inclusion in the topical report

Task 3—Petroleum Source Rocks

Work on the characterization of Smackover petroleum source rocks is being integrated into the basin flow model.

Task 4—Petroleum Reservoirs

Work on the characterization of Smackover petroleum reservoirs has been initiated through the description of selective but representative cores.

Work Planned (Year 4)

Task 1—Fluid Flow

Basin flow modeling will continue by identifying migration pathways.

Task 3—Petroleum Source Rocks

Petroleum source rock data will continue to be integrated into the basin flow model.

Task 4—Petroleum Reservoirs

Characterization of petroleum reservoirs will continue through core studies and petrographic analysis.