

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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Principal Author

Ernest A. Mancini (205/348-4319)
Department of Geological Sciences
Box 870338
202 Bevill Building
University of Alabama
Tuscaloosa, AL 35487-0338

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Second Quarterly Report for Year 5
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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 5)

Task 1—Basin Flow

Basin flow modeling has been completed and the topical report has been submitted to the U.S. DOE for review.

Task 2—Petroleum Source Rocks

Work on the characterization of Smackover petroleum source rocks has been integrated into the basin flow model. The information on the source rocks is being prepared for inclusion in the final report.

Task 3—Petroleum Reservoirs

Work on the characterization of Smackover petroleum reservoirs continues. The cores to be described have been identified and many of the cores for the eastern and western parts of the basin have been described.

Task 4—Reservoir Diagenesis

Work on reservoir diagenesis continues. Samples from the cores selected for the reservoir characterization are being used for this task.

Task 5—Underdeveloped Reservoirs

Two underdeveloped Smackover reservoirs have been identified. They are the microbial reef and shoal reservoirs.

Work Planned (Year 5)

Task 1—Basin Flow

This task has been completed and the topical report has been submitted to the U.S. DOE.

Task 2—Petroleum Source Rocks

Petroleum source rock information will continue to be prepared for the final report.

Task 3—Petroleum Reservoirs

Characterization of petroleum reservoirs will continue through core studies.








Task 4—Reservoir Diagenesis

Characterization of reservoir diagenesis will continue through petrographic analysis.

Task 5—Underdeveloped Reservoirs

Study of Smackover underdeveloped reservoirs will continue with focus on the microbial reef and shoal reservoirs.

Table 1
Milestone Chart—Year 5

Tasks	A	S	O	N	D	J	F	M	A	M	J	J	A	
Basin Flow	 xxxxxxxxxxxxxxxx													
Petroleum Source Rocks	 xxxxxxxxxxxxxxxx													
Petroleum Reservoirs	 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx													
Reservoir Diagenesis	 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx													
Underdeveloped Reservoirs						 xxxxxxxxx								
Workshop														
Final Report														

planned
 completed