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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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 modeling results are being interpreted for report writing (Table 1).

Task 2—Petroleum Source Rocks

Work on the characterization of Smackover petroleum source rocks has been integrated into the basin flow model.

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 part of the basin have been described.

Task 4—Reservoir Diagenesis

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

Work Planned (Year 5)

Task 1—Basin Flow

The report on basin flow will be completed.

Task 2—Petroleum Source Rocks

Petroleum source rock data will be reviewed in light of the basin flow model results.

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.

Table 1
Milestone Chart—Year 5

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

planned
 completed