

Lithofacies and Reservoir-Quality Review of Upper Jurassic Smackover Strata in Northeast Texas — Basic Geologic Data for Lithium-Rich Brine Exploration

The Upper Jurassic Smackover Formation in northeast Texas is an active and emerging target for lithium-rich brine exploration. Economical production of these brines depends on the presence of high-quality reservoirs, which are largely controlled by the diagenetic history of upper Smackover grainstones. The most prospective reservoirs are ooid dolograins and ooid-oncoid dolograins deposited in a proximal inner-ramp setting.

This seminar/core workshop addresses reservoir-quality risk through a series of lectures combined with hands-on examination of Smackover cores. Lecture topics include depositional setting, lithofacies, diagenesis, and reservoir quality. More than 1,000 feet of Smackover core will be displayed and reviewed during the workshop.

The seminar is designed for geoscientists, engineers, and management professionals and will be held as a full-day event at the Bureau of Economic Geology, The University of Texas at Austin. The workshop will take place on April 1, 2026. There is no charge for this workshop.

To reserve a place, please contact Bob Loucks at bob.loucks@beg.utexas.edu.

