

Recent research advances on the Upper Strawn Group, Eastern Shelf of the Permian Basin: Integrated stratigraphy, production trends, and petroleum system analyses

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Description:

The Pennsylvanian (Desmoinesian-Missourian) Strawn Group of the Eastern Shelf is a mixed carbonate-siliciclastic system that is notorious for its extreme heterogeneity, irregular architectures, and poor regional correlatability, which challenge exploration efforts and routinely stump operators. Nevertheless, it remains a highly active – and productive – play. The STARR Research Group at the Bureau of Economic Geology identified the Strawn Group as an interval of high interest with a variety of critical research needs in stratigraphy, petroleum geology, and engineering. This core workshop will showcase the most recent results of the impressive suite of research conducted by the group over the past four years.

The morning session will consist of eight talks focusing on different aspects of the group's research, including regional oil analyses, production trends, permeability and connectivity studies, and stratigraphic analyses of the subsurface and outcrop analogs. After lunch, participants will rotate through presentations of several cores from four fields in the northern Eastern Shelf region. Participants will learn about the vast range of facies one can expect to see in Strawn siliciclastic, carbonate, and mixed systems and reservoirs, and how we have been using cores and wireline log characteristics to tease out new details highly beneficial to operators working in the region.