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**Threading the Needle in the Permian
Basin : A Case Study in the Use of
Microseismic Evaluation in Determin-
ing Optimal Lateral Well Placement**

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In addition to the heterogeneity found in unconventional reservoirs, Permian Basin operators must contend with significant variability in site specific drilling and production histories. Fracture propagation can be affected by offset depletions and frac jobs in both vertical and horizontal wells. Microseismic monitoring is an essential tool for modeling fracture geometry in this complex environment and defining reservoir conditions for both well and stage placement. The study reveals the results of a Spraberry and Wolfcamp drilling program in the Midland Basin, using microseismic data to help best develop the acreage.

