

Miller and Groth, 1990

Data Set 41

Reference: Miller, R.S. and J.L. Groth, 1990, Depositional environment and reservoir properties of the lower Tuscaloosa B Sandstone Baywood field, St. Helena Parish, Louisiana:

Transactions Gulf Coast Association of Geological Societies, v. 40, p. 601-605.

Author's affiliation: Reservoirs Inc. and Coalinga Corporation

Age: Late Cretaceous

Formation: Tuscaloosa Formation

Location: Baywood field, St. Helena Parish, Louisiana, United States

Well: Keck Clemons No. 1

Depth range: 14540-14600 feet.

Depositional Environment: Deltaic channel to point bar environment (best reservoir rocks)

Lithology: "in terms of composition and diagenesis, the reservoir sandstone is anomalous to most Lower Tuscaloosa sandstones. The sandstone borders on a quartzarenite (Q=94%, F=0%, RF=6%) and is cemented by a combination of quartz overgrowths (11%), kaolinite clay (6.5%), and dolomite (5.5%). Most lower Tuscaloosa sandstones in comparison are mineralogically immature with a high lithic fragment content and are cemented by grain-coating chlorite clay."

Grain size: fine to very fine grained -- see table of data

Alteration: see lithology comments above. "Porosity is comprised of both primary intergranular and leached-grain, secondary pores. Microporosity is minimal."

Production: gas

Core measurement conditions: not given.

Data entry: manual entry from Figure 3 of the referenced paper.