

Stricklin, 1999

Data Set 63

Reference: Stricklin, F.L. Jr., 1999, The Woodbine turbidite fan at Double A Wells Field, Polk County, Texas: A rich gas find in Upper Cretaceous sandstones of a submarine canyon: American Association of Petroleum Geologists Annual Meeting, abstract, p. A135.

Authors' affiliation: consulting geologist

Age: Late Cretaceous

Formation: Woodbine Formation

Location: Double A Wells field, Downdip Tuscaloosa-Woodbine Trend, Polk County, Texas, United States

Well: W.T. Carter & Bros. No. 7 (Black Stone Energy)

Depth range: 13942-14059 feet

Depositional Setting: "The trap is a pinchout of fine-grained sandstones across a structural nose and beneath a marine disconformity that separates gulfward-dipping clinoform beds from onlapping marine transgressive deposits." Sandstones at Double A Wells Field are within a turbidite fan.

Porosity Preservation: "Sandstones are unusually porous for their 14,000 ft depth. ... Emplacement of an initial oil charge, beginning at around 8,000 ft and followed by gas as burial temperature increased, may account for porosities of up to 22% and permeabilities of up to 1.3 darcies, and suggests pore cementation may have been 'shut down' by implaced hydrocarbons."

Production: gas and condensate

Core measurement conditions: Porosity determined with Boyle's law method. Permeability determined using steady-state method with helium at 400 psig net confining stress. Measurements by Core Petrophysics, Inc.

Data entry: digital data received from the author.