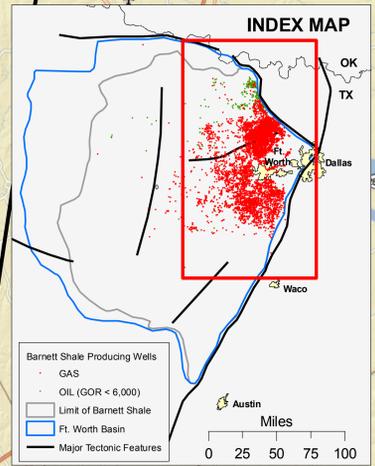
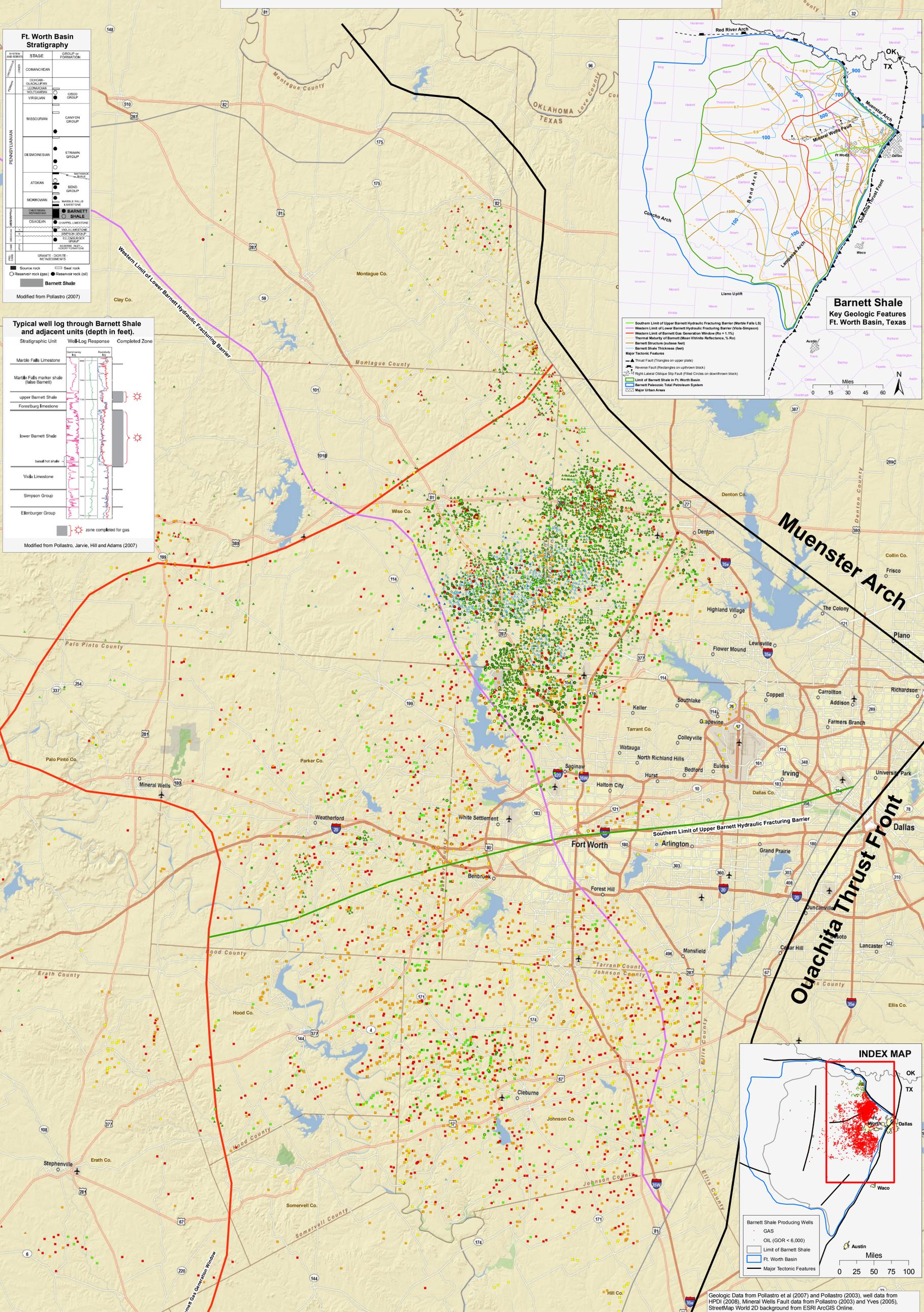
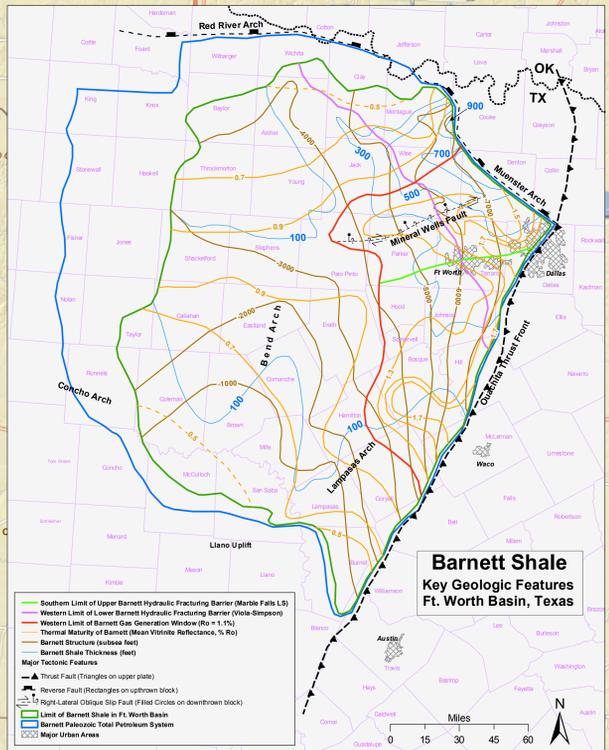
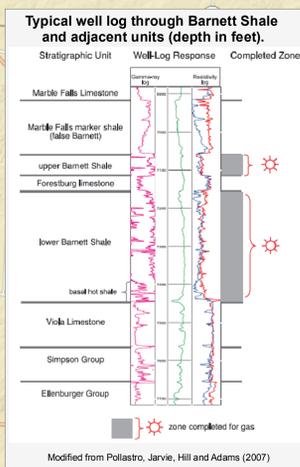
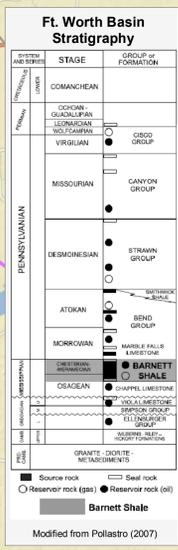


Barnett Shale, Ft. Worth Basin, Texas Wells By Year of First Production & Orientation



Geologic Data from Pollastro et al (2007) and Pollastro (2003), well data from HPDI (2008), Mineral Wells Fault data from Pollastro (2003) and Yves (2005), StreetMap World 2D background from ESRI ArcGIS Online.

–The lower limit of the Barnett Shale gas generation window (red line) is defined by the vitrinite isoreference value of $R_o = 1.1$ (Jarvie et al, 2003, 2005). Areas east and northeast of this line have the potential for nonassociated gas production, while areas to the west and southwest may produce oil from the Barnett (Pollastro, 2007).

–Southern limit of Upper Barnett hydraulic fracturing barrier (green line): the Barnett is overlain by an impermeable limestone barrier (the Marble Falls Limestone) to the north of this line, which confines hydraulically induced fractures to the Barnett during well stimulation. To the south the sedimentary facies changes to shale.

–Western limit of Lower Barnett hydraulic fracturing barrier (purple line): the Barnett is underlain by an impermeable limestone barrier (the Viola-Simpson Limestone) to the northeast of this line, which confines hydraulically induced fractures to the Barnett during well stimulation.

Map Projection: UTM-15, NAD83 Map Date: October 2008

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