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Post Paleocene Deformation Along the Eastern Margin of Kerri Kerri Basin (N.E. Nigeria)

Recent findings on the structural setting of the kerri kerri basin has unravel structures which could be of interest to the unyielding petroleum exploration going on in the upper Benue Trough. This paper presents results of recent findings in the Garin Majidadi Gbele and Siddi Kiwo Lamido Buba areas of the mid eastern margin of the Kerri Kerri Basin, a Paleocene sediment which conforms to the earliest 21st century findings around the south eastern margin of the same basin.

The Kerri Kerri basin overlies the basement complex and is between the basement complex outcrop to the west and the cretaceous sediments of the upper Benue Trough to the east. The structures present are mainly joints and faults trending in three main directions namely: - i. N-S normal faults ii. NW- SE strike slip faults iii. NE-SW strike slip faults.

Also is the NW-SE dominant joint trend. The strike slip faults are composed of zones of sheared movements, while the joints are infilled by silica in places. The strike slip faults; NW-SE and NE-SW are the latest deformational events on the Paleocene sediments hence post Paleocene. These results point to a significant event that affected parts of the upper Benue Trough and needs to be revisited.