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Brief Summary

There are three stages involved in the evolution in North Sumatra Basin (NSB); rifting, post rift subsidence and compression. All these stages are the result of inter-plate interactions between the India-Australia oceanic plate and the Eurasia plate, and the oblique subduction of the Indian Ocean plate beneath Sumatra. This has resulted in the development of extensional, compressional and strike-slip structures in the NSB and a series of complex movements on the Sumatra Fault System.

The output of the study will provide insights into 1) the interaction of extensional, strike-slip and compressional deformation; 2) the relationship between changes structural style and changes in tectonic regime on the subducting plate margin; 3) the influence of tectonics on the stratigraphy and sedimentary environments in the area.

Education: MSc at University Teknologi Petronas, BSc at Institut Teknologi Bandung

Research interests: Petroleum Geology, Petroleum Geophysics

Thesis title: New Insight into Structural and Stratigraphy Evolution of Northern Sumatra Basin, Aceh

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