

Overview of Joint Study on the Sarawak, offshore of Malaysia;

Petroleum perspective

Eul Roh

Structural Geology & Tectonics Lab.

Dept. of Earth System Sciences, Yonsei University

The hydrocarbon exploration based on recent geological and geophysical concepts are following; (1) basin analysis for identifying regional geology including regional tectonic setting and stratigraphy, (2) play analysis by applying potential plays, (3) block analysis for developing prospects and leads, and finally (4) the prospect analysis will be done for estimation of the resources and Geological Chance of Success (GCoS). After discovery of hydrocarbon, the engineering and economical concepts are combined in petroleum development and production stages.

The hydrocarbon exploration of the Sarawak, offshore of Malaysia has been conducted for a long time by an oil company, focusing on identify possible play for finding potential area and development of prospects and leads, and the estimated resource and GCoS described above, based on regional geology such as tectonic setting and stratigraphy. Furthermore, complete understanding of regional geology, especially tectonic evolution, is important to identify new potential play concept.

The objective of this study is to interpret the structural evolution of the Sarawak, offshore of Malaysia point of view petroleum exploration. The results will provide better understanding on tectonic evolution, which might help to find new oil and gas fields.

Keywords: tectonic setting, structural evolution, Sarawak, offshore of Malaysia