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Recent exploration and development in the Gulf of Thailand oil and gas fields

—Investigation of field developing technology and application of fault seal analysis—

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Abstract: In the Gulf of Thailand oil- and gasfields, natural gas exploration proceeded in the 1970s and commercial gas sourced from Miocene coal beds (Unit 3) came on stream in 1981. In the 1990s, crude oil from Oligonene lacustrine source (Unit 1) was discovered and lead to commercial development. Oil and gas in the Gulf of Thailand are accumulated in numerous Miocene fluvial sandstones, which are complexly separated by numerous normal faults. Through exploration and development history in such fields with complex geology, 3D seismic technology, slim hole infill wells and crude oil development played significant role. In addition to the operator's efforts during the history, MOECO has been performing its own in-house studies during the time. Among those studies, Fault Seal Analysis is focused in this paper.

For the study, "Faultap" PC-based software was used as a tool for analyzing petroleum migration systems that formed complex oil and gas accumulations. In the study, "Juxtaposition Diagram (Allan Fault Diagram)" and several fault seal parameters were investigated, and it was recognized that "FSFP" (Fault Seal Failure Probability) is the most useful parameter in the studied field.

Key words: <u>Gulf of Thailand, Miocene fluvial sandstones, 3D seismic, slim hole, oil</u> development, fault seal analysis, juxtaposition, FSFP

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