

FMI-Core Integration at the MITI Exploratory Test Well "NANKAI TROUGH"

Masanori Ienaga[1], Saneatsu Saito[2], Hidekazu Tokuyama[3]

[1] Earth and Planetary Sci., Tokyo Univ, [2] JAMSTEC, [3] ORI, Univ. Tokyo

MITI Exploratory Test Well "NANKAI TROUGH" is a program of coring and logging in the Nankai Trough which is to investigate the typical location of methane hydrate distribution. FMI was deployed at the drilled sites to acquire borehole images of methane hydrate distribution. As methane hydrates are electrical insulator, formation resistivity increases with increasing hydrates saturation in the formation. In addition, we conducted lithology description and physical property measurements on cores to compare with FMI images. As a result, major change in log signature can be identified around 1,212 m below sea level. The boundary in the sedimentary section is probably due to a rapid decrease of methane hydrates. We present the results of this survey and assessment of the FMI tool.