

## **Seismic Inverse Modeling for Facies Distribution in Ayeyarwaddy Delta Basin, Myanmar**

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### **Abstract**

The Ayeyarwaddy delta basin is a southernmost part of the Central Myanmar Tertiary Complex. The basin is bounded in the west by Indo-Myanmar Ranges, in the east by Bago Yoma uplift, in the north by Prome-Embayment and in the south by Gulf of Moattama. The Oligocene Inner Volcanic Arc occupies in the central part of the basin. This article describes seismic inversion study from a gas field in Ayeyarwaddy delta basin, Myanmar. The Apyauk gas field is located at about 70 kilometers northwest of Yangon City. The field is situated in the northern part of the gas and condensate prone Ayeyarwaddy delta basin. The stratigraphy of the area is represented by an overall regressive sequence. Pre-Miocene basement is overlain by Early Miocene sediments, which in turn underlies the Pyawbwe, Kyaukkok, Obogon, and Irrawaddy Formations.