

# Analisis Fasies dan Lingkungan Pengendapan Pada Formasi Ngimbang, Lapangan "X", Cekungan Jawa Timur Berdasarkan Data Core dan Sumur = Facies Analysis and Depositional Environment of the Ngimbang Formation, "X" Field, East Java Basin Based on Core and Well Data

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## Abstrak

Formasi Ngimbang memiliki reservoir berupa batuan karbonat. Batuan karbonat memiliki kesulitan yang lebih khususnya pada reservoir hidrokarbon. Untuk mendukung kegiatan hal tersebut dibutuhkan pemahaman kondisi geologi di wilayah Cekungan Jawa Timur, salah satunya adalah studi mengenai fasies dan lingkungan pengendapan. Metode yang digunakan dalam penelitian ini adalah deskripsi batuan inti, deskripsi petrografi, dan interpretasi log sumur. Data yang digunakan berupa 3 sumur dengan 30 sampel sayatan tipis. Dari analisis tersebut, didapatkan 6 fasies, yaitu mudstone, large foram wackestone, skeletal wackestone, large foram packstone, skeletal packstone-grainstone, dan shale dengan 3 asosiasi fasies, yaitu platform interior – open marine, platform-margin sand shoals, dan platform interior – restricted

.....The Ngimbang Formation has a reservoir of carbonate rocks. Carbonate rocks have more difficulties, especially in hydrocarbon reservoirs. To support these activities, it is necessary to understand the geological conditions in the East Java Basin area, one of which is the study of facies and depositional environments. The methods used in this study are core rock description, petrographic description, and well log interpretation. The data used were 3 wells with 30 thin section samples. From the analysis, 6 facies were obtained, namely mudstone, large foram wackestone, skeletal wackestone, large foram packstone, skeletal packstone-grainstone, and shale with 3 facies associations, namely platform interior - open marine, platform-margin sand shoals, and platform interior - restricted.