

## **APPLICATION X-RAY CT SCAN TOMOGRAPHY TO IDENTIFYING COAL CLEATS IN TANJUNG FORMATION, PASIR BASIN, SOUTHEAST KALIMANTAN, INDONESIA**

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### **ABSTRACT**

The network of natural fractures in the coal referred to as cleat; is one phenomenon that should be examined in the exploration of CBM. The CT scan is a non-destructive technique with wide applications in various geological disciplines as in coal exploration. From the Tanjung coal formation by CT scan techniques can be identified different types of the coal cleat which reflecting the geological processes during coal formation. By study CT scanning tomography from Tanjung Formation coal can be identified three types of natural fractures i.e. face cleats, butt cleats and fracture. The shape of cleats is dominated by a curved line, while the straight line shape was rare. The cleats origin in Tanjung Formation was mainly controlled by tectonic activity which indicated by the dominantly curved shape of cleats in coal samples.

**KEYWORDS:** X-Ray, CT Scan, Cleat, Tanjung Formation, Coal, Pasir Basin