



**ID 07**

## **Premoški sloj 510 (Namurian B) v Zgornje Šlezijem premoškem bazenu (Poljska)**

### **Coal seam 510 (Namurian B) in Upper Silesian Coal Basin (Poland)**

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#### **POVZETEK**

**Ključne besede:** Zgornje Šlezijski premoški bazen, Saddle Beds, Zgornje Šlezijška serija peščenjaka, bituminozen premog, premoški sloj 510, Namurian B.

#### **ABSTRACT**

The lithological profile of the Upper Silesian Coal Basin (USCB) shows characteristic duality. In the lower part of profile (Namurian A) occur paralic sediments and in the upper part of profile (Namurian B – Westphalian D) limnic sediments. Coal seam 510 (Namurian B) which begins limnic sedimentation in USCB is the leading and the most significant coal seam in the whole basin. The surface of USCB, according to different assessments, achieves even 7400 km<sup>2</sup>, and coal seam 510 occupies about  $\frac{3}{4}$  of its area. This coal seam occurs usually among sandstones of Saddle Beds of Upper Silesian Sandstones Series and is characterized by considerable thickness, from several meters in the west to even 24 meters in the eastern part of the coal basin. This thickness diversification of coal seam 510 results from the difference in geological structure of the coal basin. The thickness of coal-bearing beds in the east of basin achieve several hundred meters and there are observed lesser values of subsidence (“platform” type of basin with stable basement) and in the western part of basin their thickness achieve up to ~8 km (“geosynclinal” type of basin with sinking basement). The Saddle Beds, where the coal seam 510 occurs, represent particular case of variability of thickness of series in USCB, from 24 m in the east to 290 m in the west. In the east, the coal seam 510, comprises equivalent of Saddle Beds (100% thickness of series is a coal seam) and in western direction, as a result of seam splitting and simultaneous increase of thickness, the coal-bearing decreases to several %. In the eastern part of basin, in the coal seam 510 occur power coals and in the west, rank of coals from this seam increases and appear even coking coals.

**Key words:** Upper Silesian Coal Basin, Saddle Beds, Upper Silesian Sandstones Series, bituminous coal, coal seam 510, Namurian B.