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Sommario/riassunto	Upper Carboniferous (Westphalian C/D) fluvial sandstones and Zechstein Ca2 (Stassfurt, second cycle) carbonates represent two important hydrocarbon reservoir units in NW Europe. A better understanding of reservoir quality variations and their spatial variability is crucial to develop successful exploration strategies. In fluvial Westphalian C/D sandstones and Ca2 carbonate reservoirs, the reservoir properties are controlled by diagenetic alterations and intense fracturing.