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Autore	Wüstefeld Patrick
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Sommario/riassunto	Upper Carboniferous sandstones are important tight gas reservoirs in Central Europe. This field-based study, conducted in a km-scale reservoir outcrop analog (Piesberg quarry, Lower Saxony Basin, NW Germany), focused on the diagenetic control on spatial reservoir quality distribution. Geothermometers were used to characterize a fault-related thermal anomaly. A prototype workflow based on terrestrial laser scanning is presented, which allowed for the automated detection and analysis of fractures.