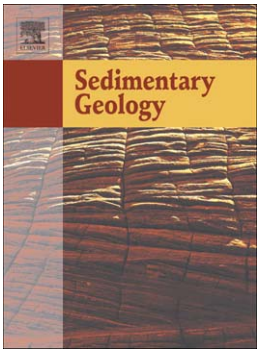

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Abstract: The Shunnan (SN) area, located in the center of the Tarim basin, NW China, is a gas field discovered in 2013, where the gas is hosted from deeply buried Ordovician carbonate reservoirs with burial depth > 6000 meters and temperature > 190 °C. The most important reservoir rocks in the SN area are silicified limestones, which are characterized