

**Feature of karst  
palaeogeomorphology of Middle  
Permian Maokou group and  
exploration area evaluation  
in Sichuan Basin of Central china**

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In order to solve the paleokarst distribution underrecognized problem in Maokou Formation of Sichuan Basin, geological and geophysical response of karst reservoir were analyzed, at the same time detailed stratigraphic correlation of more than 200 exploratory wells of MaoKou group has been carried out on the whole basin. Based on this, using of two palaeogeomorphologic analysis methods, depiction impression method and residual thickness method, carrying out the Maokou palaeogeomorphology meticulous depiction, Pointed out that the Maokou group developed three geomorphic units: the karst depressions, the karst slopes, the karst highlands, ancient landform has the feature of "three highlands, two slopes and two depressions", the formation of karst depression were preserved

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basically integrity, karst highland missing the section of Mao 4 and part of the Mao 3 segment, the hiatus of karst slope are between the highlands and the karst depression. This new understanding Breakthrough in the predecessors of the Maokou Formation of weathering crust paleo-geomorphology exists "two high" understanding; based on this new understanding and combined with the source rock hydrocarbon generation intensity , four favorable exploration zone in Maokou Formation are proposed in this paper.