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川西坳陷中段海相层系油气勘探潜力分析 [点此下载全文](#)

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摘要:

四川盆地碳酸盐岩领域在油气勘探中占主导地位, 近年中石油和中石化在四川深层碳酸盐岩领域勘探中均取得了重要进展, 针对川西坳陷中段前期碳酸盐岩领域勘探和研究工作较少, 本文通过成藏地质条件生、储、盖、圈闭、保存等的研究, 认为该区发育5套烃源岩; 中三叠统雷口坡组一-三段、下三叠统嘉陵江组二-三段、下三叠统飞仙关组三段、上二叠统长兴组和下二叠统茅口组及栖霞组储层发育; 除山前通天断裂附近和下三叠统膏岩层系剥蚀区外, 保存条件均较好; 海相发育众多局部构造, 并成带分布, 具备形成大中型气田的条件. 结合海相层系潜力评价和成藏模式预测, 认为该领域勘探潜力巨大, 是川西增储上产的潜在领域. 并结合勘探中面临的问题, 提出针对山前带和山前带应搞好造山带复杂地表深层的地震采集、处理、解释攻关, 重在落实圈闭; 针对孝新合-丰谷构造带坚持立体勘探, 有必要在该区构造和岩相叠合有利部位部署一口风险勘探井.

关键词: [川西坳陷](#) [中段](#) [海相层系](#) [勘探潜力](#)

The Forecast of Natural Oil & Gas Potential in Marine Strata, Western Sichuan Basin, Southwest China [Download Fulltext](#)

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Fund Project:

Abstract:

Most of the oil and gas reservoirs occur in marine carbonate strata in the Sichuan Basin. Recently, both PetroChina and SINOPEC have made great progress in exploring oil in this area. By analysis of source rocks, reservoirs, caprocks, traps and preserve factors, the paper believed that there are five sets of source rocks developed for hydrocarbon, namely, the first and third segments of Middle-Triassic Leikoupo Formation, the second and third segments of Lower-Triassic Jialingjiang Formation, the third segment of Lower-Triassic Feixianguan Formation, Permian Changxing Formation, and Maokou and Qixia Formations. Except the area around the foreland Tongtian fault and Lower-Triassic gypsum weathering area, the other sequences are all in good condition and regional structures are well developed in marine sediments, which has equipped with precondition for medium- or large-scale oil fields. Combined with potential evaluation and reservoir mode for marine sediments, the paper believed there is some prospect for increasing reserve of oil in South Sichuan. With the risks evaluation, the paper pointed out that different strategy of exploration should be adopted. In the piedmontsfront of Longmen Mountain, seismic collection, disposal and interpretation should be enhanced in order to find traps exactly. And in the Xiaoxinhe-Fenggu area, a compound exploration method should be taken and a risk drilling hole should be deployed at a proper position around the convergent area of structure zone and lithology.

Keywords: [western Sichuan basin](#) [middle segment of Longmen mountain](#) [marine strata](#) [potential of natural gas exploration](#)

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