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中国前陆盆地油气富集规律 [点此下载全文](#)

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摘要:

天然气的富集是中国前陆盆地的特点, 煤系烃源岩发育是天然气富集的主要原因; 中西部前陆盆地具有多期成藏的特征, 构造多期叠合、古构造发育、多套烃源岩多期演化是油气多期成藏的主控因素; 前陆盆地发育三套储盖组合和原源、它源两大套成藏体系, 控制着油气纵向分布; 前陆盆地不同构造带地质特征控制着油气区域分布规律, 逆冲带、前缘隆起带油气藏主要分布于下部成藏体系, 坳陷带油气藏主要分布于上部成藏体系; 在逆冲山前带油藏被破坏形成油苗、沥青或残余油藏, 在坳陷内的逆冲带和坳陷带主要聚集了成熟度相对较高的天然气, 在斜坡带和前缘隆起带既聚集了早期形成的油(气)藏, 又聚集了晚期成熟度相对较高的天然气。

关键词: [中国](#) [前陆盆地](#) [油气](#) [富集规律](#) [主控因素](#)

Oil and Gas Accumulation of Foreland Basins in China [Download Fulltext](#)

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Abstract:

Foreland basins in China are characterized by enrichment of natural gas due to the existence of coal measures strata source rock. Multi-stage reservoir forming and the accumulation of oil and gas represent the important features of the foreland basins in the middle and western parts of China. Its prevailing geological controls include their complex tectonic development involving superimposed basins, the development of paleo-tectonics and the formation of multiple hydrocarbon source rock/reservoir combinations. In foreland basins, There are three sets of combinations of reservoir and cap rocks and two pool forming systems in foreland basins including self-source and derived-source, which control the distribution of oil and gas in vertical direction. The different characteristics of structural belts in foreland basin play a controlling role in the distribution of oil and gas. Oil reservoirs in the thrust belts and forebulge are located in the lower reservoir forming system while oil reservoirs in the depression are distributed in the upper reservoir forming system. Oil reservoirs formed before are destroyed and become oil seepages, asphalt or residual oil reservoirs in the piedmont while relatively more matured gas is accumulated in the foreland thrust belt and in the depression. The slope zone and the forebulge belt are the accumulating areas for the early formed oil/gas and relatively matured gas which formed latter.

Keywords: [China](#) [foreland basin](#) [oil and gas reservoir](#) [oil and gas enrichment](#) [main controlling factors](#)

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